Installation / Operating Guide | Warranty

Model Numbers | H27E44DT **|** H32E44DT **Presentation™ TVs**

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zenith

For Customer Support/Service please call:

1-888-865-3026

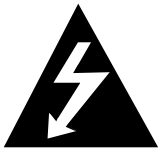
www.zenith.com

RECORD YOUR MODEL NUMBER

The model and serial number of the Presentation™ TV are located on the back of the TV cabinet. For your future convenience, we suggest that you write those numbers here:

MODEL NO._____

SERIAL NO._____



WARNING

RISK OF ELECTRIC SHOCK
DO NOT OPEN

WARNING:

TO REDUCE THE RISK OF ELECTRIC SHOCK DO NOT REMOVE COVER (OR BACK). NO USER SERVICEABLE PARTS INSIDE. REFER TO QUALIFIED SERVICE PERSONNEL.

The lightning flash with arrowhead symbol, within an equilateral triangle, is intended to alert the user to the presence of uninsulated "dangerous voltage" within the product's enclosure that may be of sufficient magnitude to constitute a risk of electric shock to persons.

The exclamation point within an equilateral triangle is intended to alert the user to the presence of important operating and maintenance (servicing) instructions in the literature accompanying the appliance.

WARNING:

TO PREVENT FIRE OR SHOCK HAZARDS, DO NOT EXPOSE THIS PRODUCT TO RAIN OR MOISTURE.

POWER CORD POLARIZATION WARNING:

CAUTION: TO PREVENT ELECTRIC SHOCK, MATCH WIDE BLADE OF PLUG TO WIDE SLOT, FULLY INSERT.

ATTENTION: POUR ÉVITER LES CHOCS ÉLECTRIQUES, INTRODUIRE LA LAME LA PLUS LARGE DE LA FICHE DANS LA BORNE CORRESPONDANTE DE LA PRISE ET POUSSER JUSQU'AU FOND.

NOTE TO CABLE/TV INSTALLER:

This reminder is provided to call the cable TV system installer's attention to Article 820-40 of the National Electric Code (U.S.A.). The code provides guidelines for proper grounding and, in particular, specifies that the cable ground shall be connected to the grounding system of the building, as close to the point of the cable entry as practical.

REGULATORY INFORMATION:

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference when the equipment is operated in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instruction manual, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

CAUTION:

Do not attempt to modify this product in any way without written authorization from Zenith Electronics Corporation. Unauthorized modification could void the user's authority to operate this product.

COMPLIANCE:

The responsible party for this product's compliance is:
Zenith Electronics Corporation, 2000 Millbrook Drive, Lincolnshire, IL 60069, USA. Phone: 1-847-941-8000.

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IMPORTANT SAFETY INSTRUCTIONS

Important safeguards for you and your new product

Your product has been manufactured and tested with your safety in mind. However, improper use can result in potential electrical shock or fire hazards. To avoid defeating the safeguards that have been built into your new product, please read and observe the following safety points when installing and using your new product, and save them for future reference.

Observing the simple precautions discussed in this operating guide can help you get many years of enjoyment and safe operation that are built into your new product.

1. Read Instructions

All the safety and operating instructions should be read before the product is operated.

2. Follow Instructions

All operating and use instructions should be followed.

3. Retain Instructions

The safety and operating instructions should be retained for future reference.

4. Heed Warnings

All warnings on the product and in the operating instructions should be adhered to.

5. Cleaning

Unplug this product from the wall outlet before cleaning. Do not use liquid cleaners or aerosol cleaners. Use a damp cloth for cleaning.

6. Water and Moisture

Do not use this product near water for example, near a bath tub, wash bowl, kitchen sink, or laundry tub, in a wet basement, or near a swimming pool.

7. Accessories, Carts, and Stands

Do not place this product on a slippery or tilted surface, or on an unstable cart, stand, tripod, bracket, or table. The product may fall, causing serious injury to a child or adult, and serious damage to the product. Use only with a cart, stand, tripod, bracket, or table recommended by the manufacturer, or sold with the product. Any mounting of the product should follow the manufacturer's instructions, and should use a mounting accessory recommended by the manufacturer.

8. Transporting Product

A product and cart combination should be moved with care. Quick stops, excessive force, and uneven surfaces may cause the product and cart combination to overturn.

PORTABLE CART WARNING

9. Attachments

Do not use attachments not recommended by the product manufacturer as they may cause hazards.

10. Ventilation

Slots and openings in the cabinet are provided for ventilation and to ensure reliable operation of the product and to protect it from overheating, and these openings must not be blocked or covered. The openings should never be blocked by placing the product on a bed, sofa, rug, or other similar surface. This product should not be placed in a built-in installation such as a bookcase or rack unless proper ventilation is provided or the manufacturer's instructions have been adhered to.

11. Power Sources

This product should be operated only from the type of power source indicated on the marking label. If you are not sure of the type of power supply to your home, consult your product dealer or local power company. For products intended to operate from battery power, or other sources, refer to the operating instructions.

12. Power Cord Plug: 3-Wire Grounding or 2-Wire Polarization

Three-Wire Grounding

This product may be equipped with a three-wire grounding-type plug, a plug having a third (grounding) pin. This plug will only fit into a grounding-type power outlet. This is a safety feature. If you are unable to insert the plug into the outlet, contact your electrician to replace your obsolete outlet. Do not defeat the safety purpose of the grounding-type plug.

Two-Wire Polarization

This product may be equipped with a polarized alternating-current line plug (a plug having one blade wider than the other). This plug will fit into the power outlet only one way. This is a safety feature. If you are unable to insert the plug fully into the outlet, try reversing the plug. If the plug should still fail to fit, contact your electrician to replace our obsolete outlet. Do not defeat the safety purpose of the polarized plug.

(Continued on next page)

IMPORTANT SAFETY INSTRUCTIONS

(Continued from previous page)

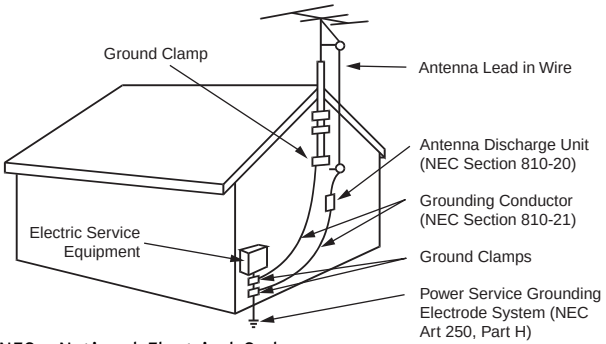
13. Power Cord Protection

Power-supply cords should be routed so that they are not likely to be walked on or pinched by items placed upon or against them, paying particular attention to cords at plugs, convenience receptacles, and the point where they exit from the product.

14. Outdoor Antenna Grounding

If an outside antenna or cable system is connected to the product, be sure the antenna or cable system is grounded so as to provide some protection against voltage surges and built-up static charges. Article 810 of the National Electrical Code (U.S.A.), ANSI/ NFPA 70 provides information with regard to proper grounding of the mast and supporting structure, grounding of the lead-in wire to an antenna discharge unit, size of grounding conductors, location of antenna-discharge unit, connection to grounding electrodes, and requirements for the grounding electrode.

Example of Grounding According to National Electrical Code Instructions


Ground Clamp
Antenna Lead in Wire
Antenna Discharge Unit (NEC Section 810-20)
Grounding Conductor (NEC Section 810-21)
Electric Service Equipment
Ground Clamps
Power Service Grounding Electrode System (NEC Art 250, Part H)

NEC - National Electrical Code

15. Lightning

For added protection for this product (receiver) during a lightning storm, or when it is left unattended and unused for long periods of time, unplug it from the wall outlet and disconnect the antenna or cable system. This will prevent damage to the product due to lightning and power-line surges.

16. Power Lines

An outside antenna system should not be located in the vicinity of overhead power lines or other electric light or power circuits, or where it can fall into such power lines or circuits. When installing an outside antenna system, extreme care should be taken to keep from touching such power lines or circuits as contact with them might be fatal.

17. Overloading

Do not overload wall outlets and extension cords as this can result in a risk of fire or electric shock.

18. Object and Liquid Entry

Never push objects of any kind into this product through openings as they may touch dangerous voltage points or short-out parts that could result in a fire or electric shock. Never spill liquid of any kind on the product.

19. Servicing

Do not attempt to service this product yourself as opening or removing covers may expose you to dangerous voltage or other hazards. Refer all servicing to qualified service personnel.

20. Damage Requiring Service

Unplug this product from the wall outlet and refer servicing to qualified service personnel under the following conditions:

a. If the power-supply cord or plug is damaged.

b. If liquid has been spilled, or objects have fallen into the product.

c. If the product has been exposed to rain or water.

d. If the product does not operate normally by following the operating instructions. Adjust only those controls that are covered by the operating instructions as an improper adjustment of other controls may result in damage and will often require extensive work by a qualified technician to restore the product to its normal operation.

e. If the product has been dropped or the cabinet has been damaged.

f. If the product exhibits a distinct change in performance.

21. Replacement Parts

When replacement parts are required, be sure the service technician has used replacement parts specified by the manufacturer or have the same characteristics as the original part. Unauthorized substitutions may result in fire, electric shock, or other hazards.

22. Safety Check

Upon completion of any service or repairs to this product, ask the service technician to perform safety checks to determine that the product is in proper operating condition.

23. Wall or Ceiling Mounting

The product should be mounted to a wall or ceiling only as recommended by the manufacturer. The product may slide or fall, causing serious injury to a child or adult, and serious damage to the product.

24. Heat

The product should be situated away from heat sources such as radiators, heat registers, stoves, or other products (including amplifiers) that produce heat.

Table of Contents

This operating and installation guide is divided into two sections:
*The **TV section** - Information for setting up the TV's features.*
*The **Installer section** - A special section with information and instructions provided for use by qualified electronics servicer/technicians to configure or adjust the operational features of this TV.*

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Installer/Service Information

Note: This information is provided for technically qualified service personnel only. Settings should not be changed by the average user!

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Step 3. Customize the Presentation™ TV's Features

Setup Menu (Starts with page 14, Auto Program)

Optional LT2000 Quickset II Clone Programmer (Copies a TV's Setup to Other Identical TVs)

To perform the installation setup, you can use the MBR3447, and the optional LT2000 Quickset II Clone Programmer - - described in the Installer's Section. The MBR3447 Installer Remote gives access to the Installer menus, the Service menus, the User menus, and has a Source key. The LT2000 Quickset II Clone Programmer is used to duplicate a TV's Setup and install it on another identical Zenith TV. The Clone Programmer can be programmed to store in non-volatile memory, up to three TV Setups. See your Zenith Dealer.

Note: Design and Specifications subject to change without prior notice.

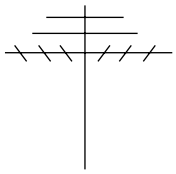
Hookup Directory

IMPORTANT!!

Use this page to decide where you need to begin your set up. First, find the line below that best describes what you want to do, then go to that page number.

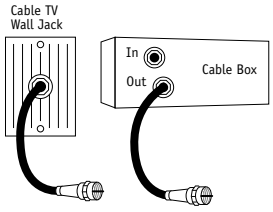
Antenna only

If you are using an antenna and no other equipment, go to . . . . . page 7



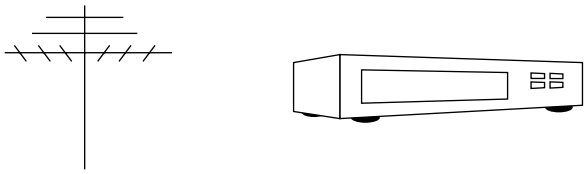
Cable only

If you have cable service and no other equipment, go to . . . . . page 8



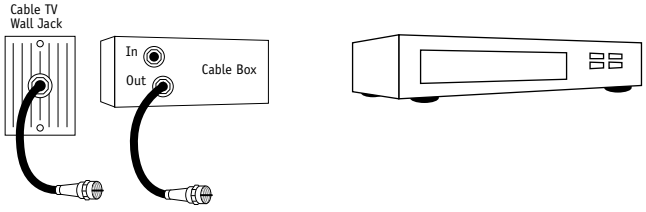
Antenna with VCR

If you are using an antenna and have a VCR, go to . . . . . page 9



Cable and VCR

If you have cable service and a VCR, go to . . . . . page 10



S-Video/Speaker

If you want to connect an S-Video VCR/DVD Player etc. . . . . page 11
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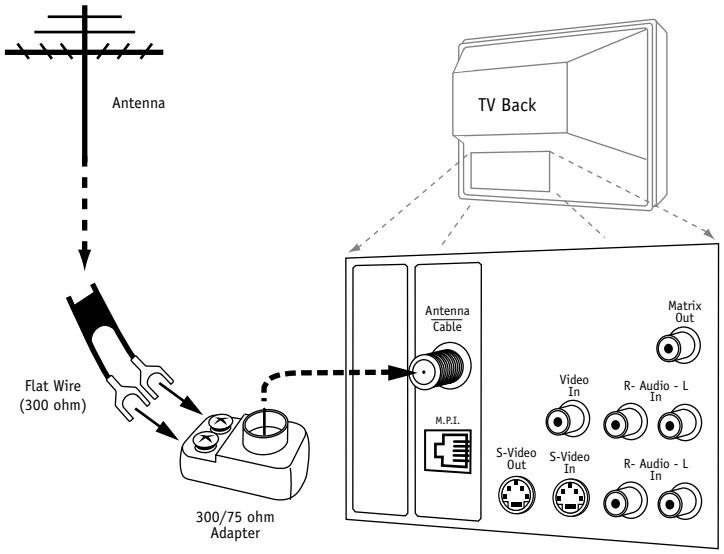
Hook Up An Over-The-Air Antenna

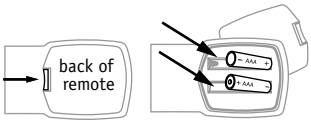
Connect an off-air antenna to the Presentation TV



1 Locate the Antenna/Cable jack on the back of the Presentation TV.

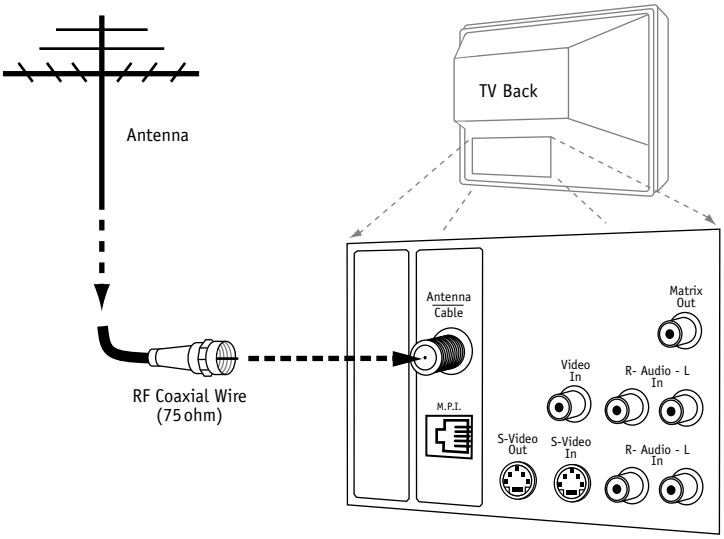
2 Connect the cable that runs from the wall directly to this jack, according to one of the diagrams shown to the right.

3 Remove the back of the remote and put in two AAA batteries.



4 Plug in your TV to a standard power outlet. This TV is designed to operate on standard current, 120-volt 60 Hertz AC. Do not attempt to operate it on DC Current.

5 Go to page 14 to Auto Program the Presentation TV.



If you have a 75 ohm RF cable, then you don't need any adapters!

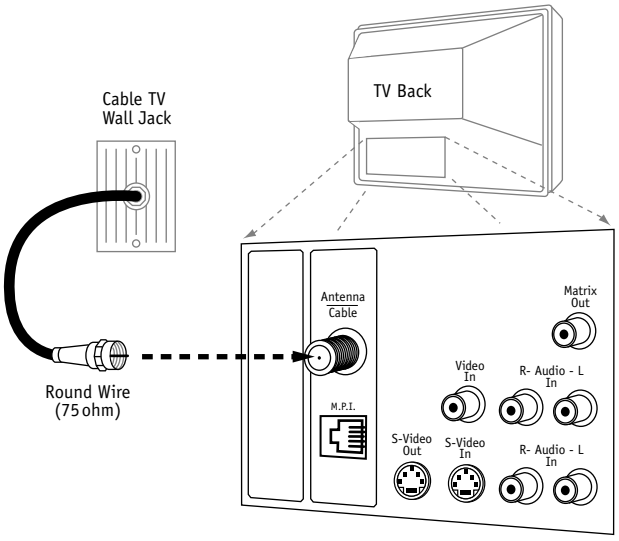
A 300 to 75 ohm adapter is not included with the Zenith Presentation TV.

Mini glossary

75 OHM RF CABLE	The wire that comes from an off-air antenna or cable service provider. Each end looks like a hex shaped nut with a wire sticking through the middle, and it screws onto the threaded jack on the back of your TV.
300 TO 75 OHM ADAPTER	A small device that connects a two-wire 300 ohm antenna to a 75 ohm RF jack (Antenna/Cable). They are usually about an inch long with two screws on one end and a round opening with a wire sticking out on the other end.

Hook Up Cable Service (CATV)

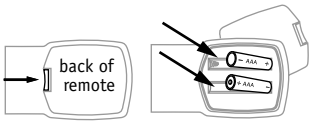
Connect cable service to the Presentation TV



1 Locate the Antenna/Cable jack on the back of the Presentation TV.

2 Connect the cable that runs from the wall, to the TV according to one of the diagrams shown to the right.

3 Remove the back of the remote and put in two AAA batteries.

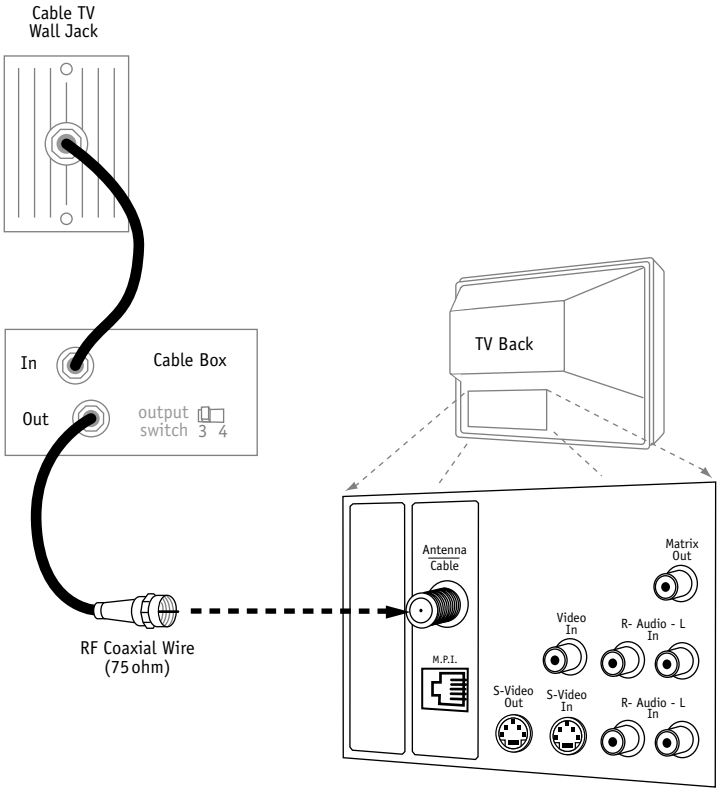


4 Plug in your TV to a standard power outlet. This TV is designed to operate on standard current, 120-volt 60 Hertz AC. Do not attempt to operate it on DC Current.

5 Go to page 14 to Auto Program the Presentation TV.

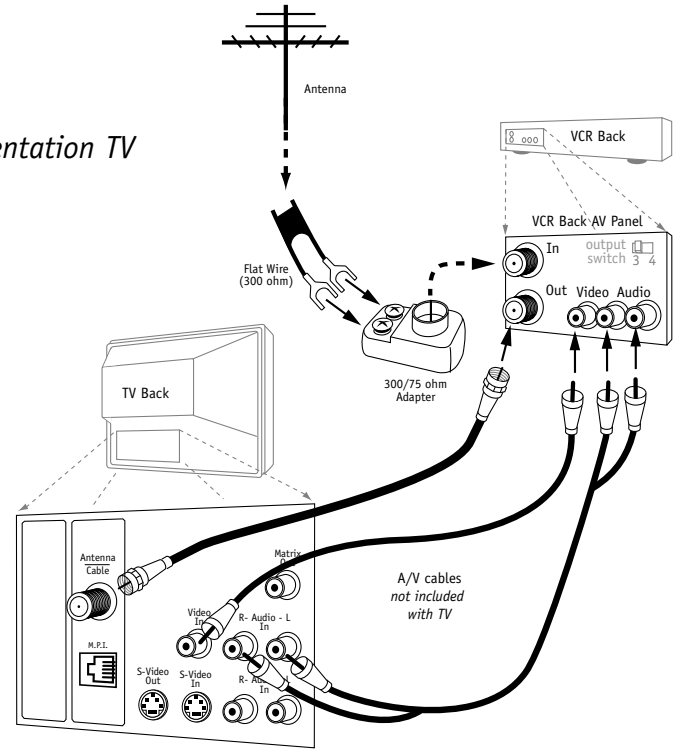
If you're using a cable box, tune the TV to channel 3 or 4 and use your cable box to change channels.

If you're using a cable box, Auto Program might only find the channel your cable service is on (usually channel 3 or 4). Don't worry, that's all you need!



Hook Up Over-The-Air Antenna and VCR

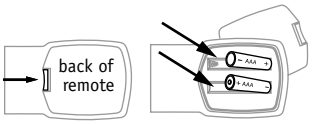
Connect your off-air antenna and VCR to the Presentation TV



1 Locate the Antenna/Cable (In) jack on the back of the VCR.

2 Connect the cable that runs from the antenna directly to this jack, according to one of the diagrams shown to the right.

3 Remove the back of the remote and put in two AAA batteries.

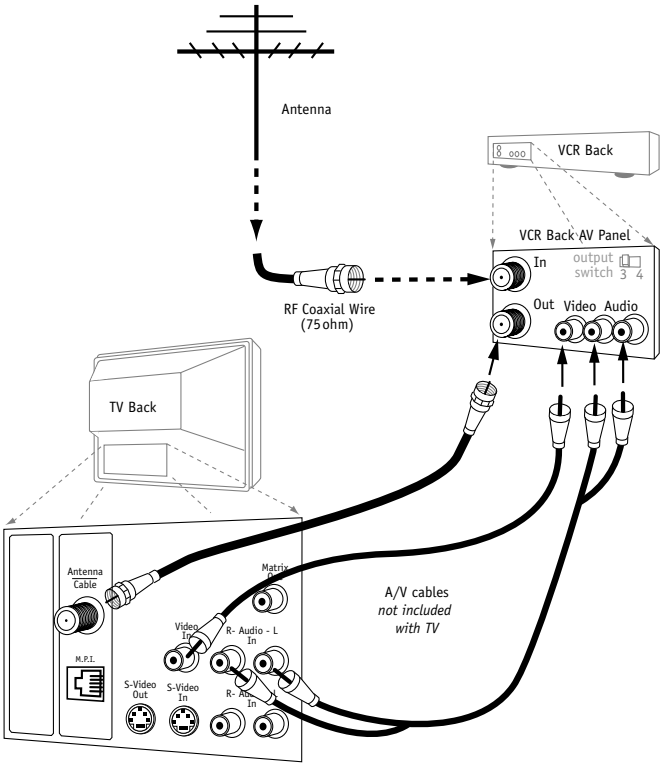


4 Plug your TV in to a standard power outlet. This TV is designed to operate on standard current, 120-volt 60 Hertz AC. Do not attempt to operate it on DC Current.

5 Go to page 14 to Auto Program the Presentation TV.

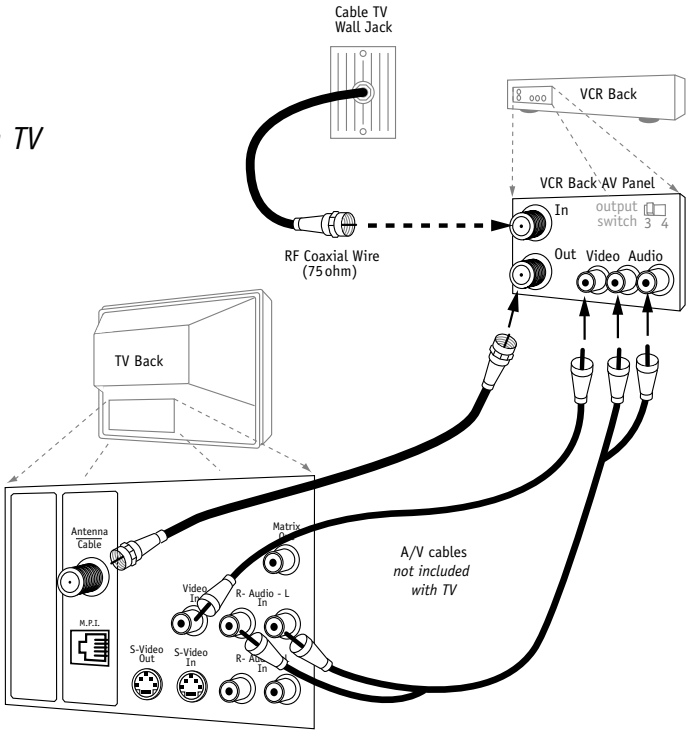
No A/V cables are included with the Zenith Presentation TV.

Without A/V cables, most VCRs will not play videocassettes in stereo sound.



Hook Up Cable Service (CATV) and VCR

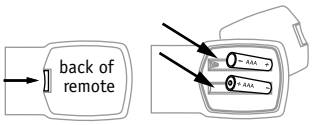
Connect a VCR and Cable service to the Presentation TV



1 Locate the Antenna/Cable (In) jack on the back of the VCR.

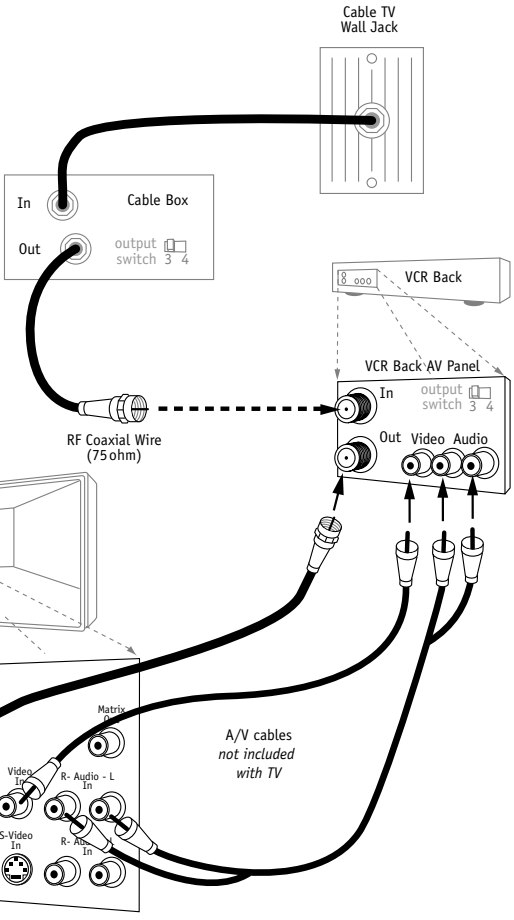
2 Connect the cable that runs from the wall directly to this jack, according to one of the diagrams shown to the right.

3 Remove the back of the remote and put in two AAA batteries.



4 Plug your TV in to a standard power outlet. This TV is designed to operate on standard current, 120-volt 60 Hertz AC. Do not attempt to operate it on DC Current.

5 Go to page 14 to Auto Program the Presentation TV.



Tune the VCR and television tuned to channel 3 or 4 and use the cable box to change channels.

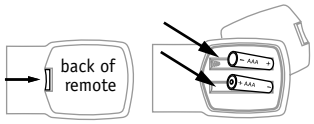
No A/V cables are included with your Presentation TV. Without A/V cables, most VCRs will not play videocassettes in stereo sound.

Hook Up S-Video VCR/DVD Player

Your Zenith TV may be connected to a Super-VHS VCR or DVD player through the S-Video Input located on the TV's connection panel. Use the TV's S-Video In jack to connect other S-Video type equipment.

1 Hook up your S-Video type VCR to your Zenith TV according to the diagram.

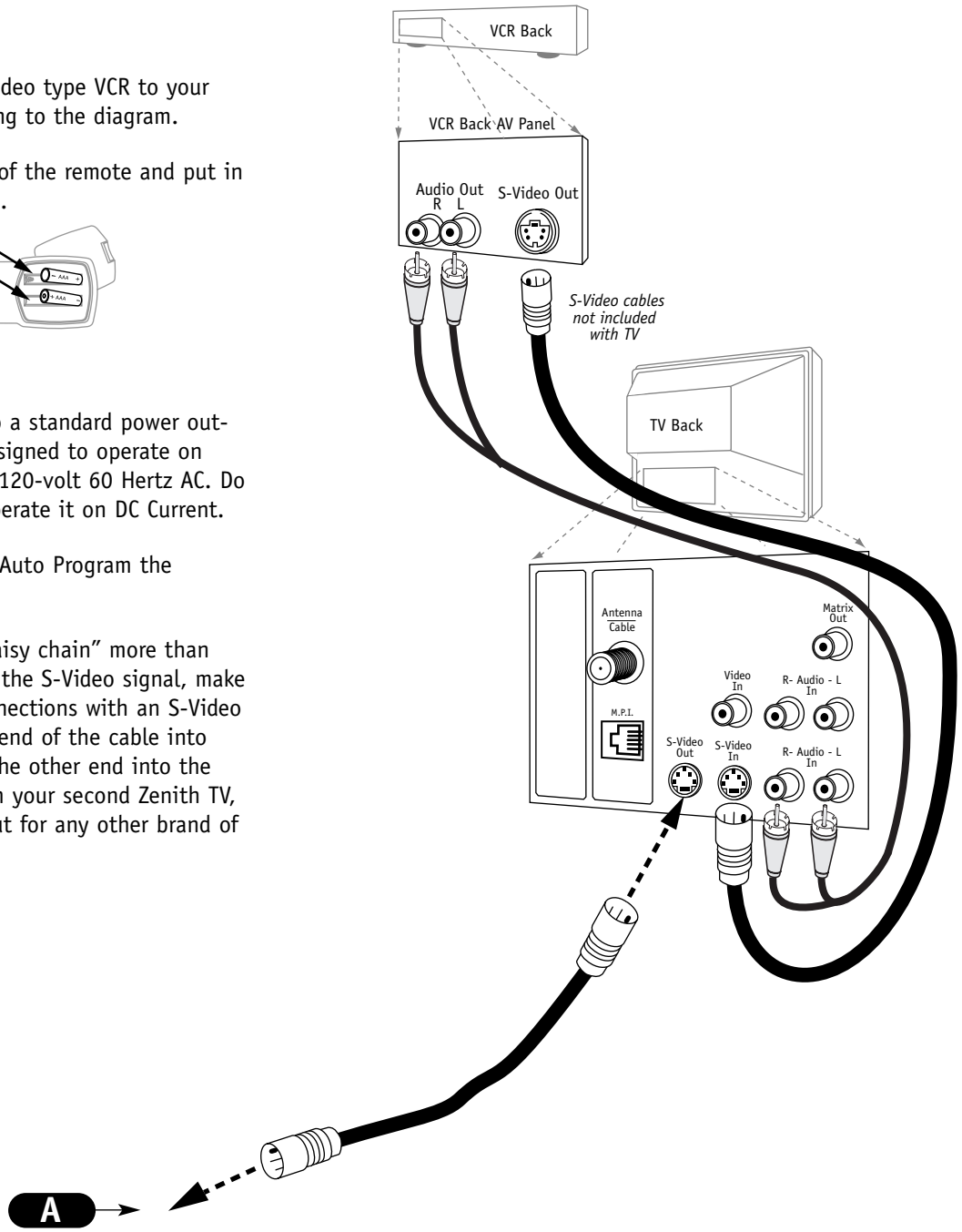
2 Remove the back of the remote and put in two AAA batteries.



3 Plug your TV in to a standard power outlet. This TV is designed to operate on standard current, 120-volt 60 Hertz AC. Do not attempt to operate it on DC Current.

4 Go to page 14 to Auto Program the Presentation TV.

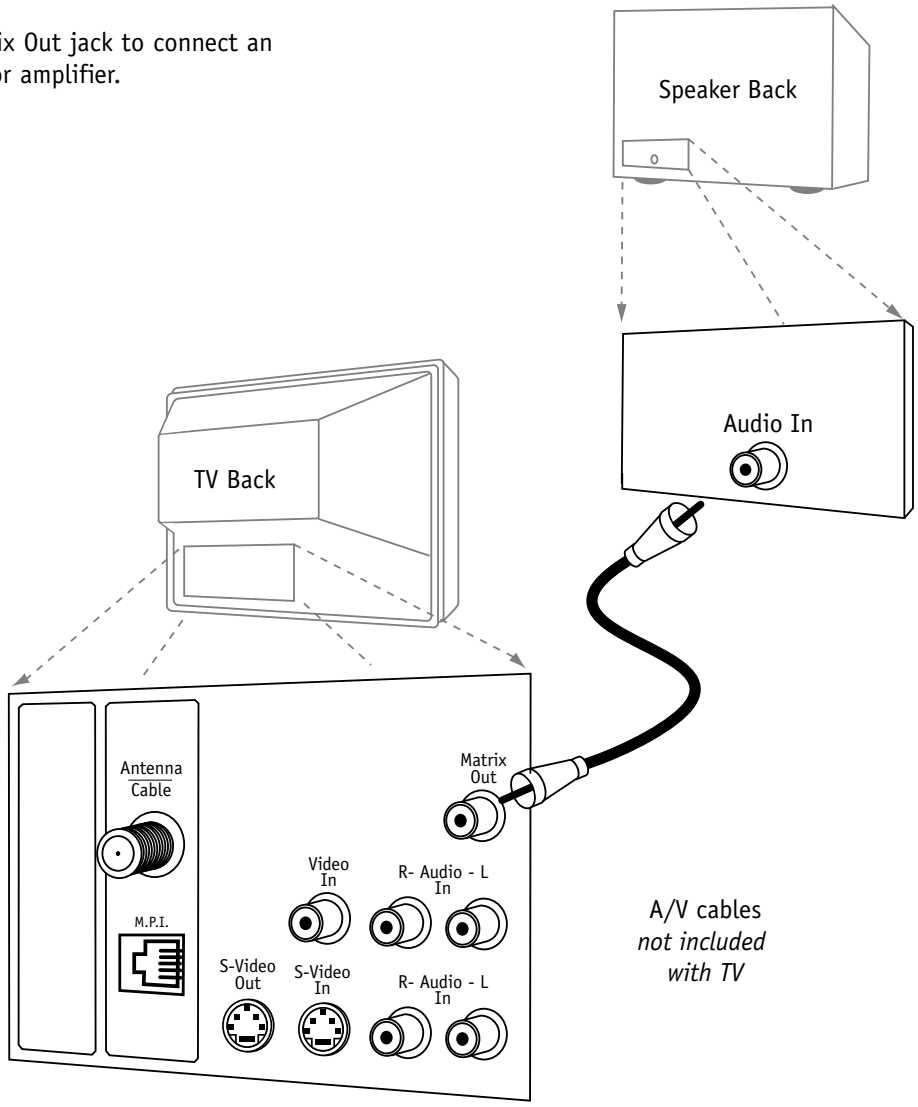
A If you wish to "daisy chain" more than one TV to receive the S-Video signal, make the following connections with an S-Video cable: Insert one end of the cable into S-Video Out and the other end into the S-Video In jack on your second Zenith TV, or equivalent input for any other brand of TV. See page 13.



External Monaural Speaker Hookup

Send the sound from the TV to an external speaker

1 Audio Output: Use the Matrix Out jack to connect an external monaural speaker or amplifier.



S-Video Loop-out Connections

Use the S-Video Out jack to connect up to four other TVs in a "daisy-chain"

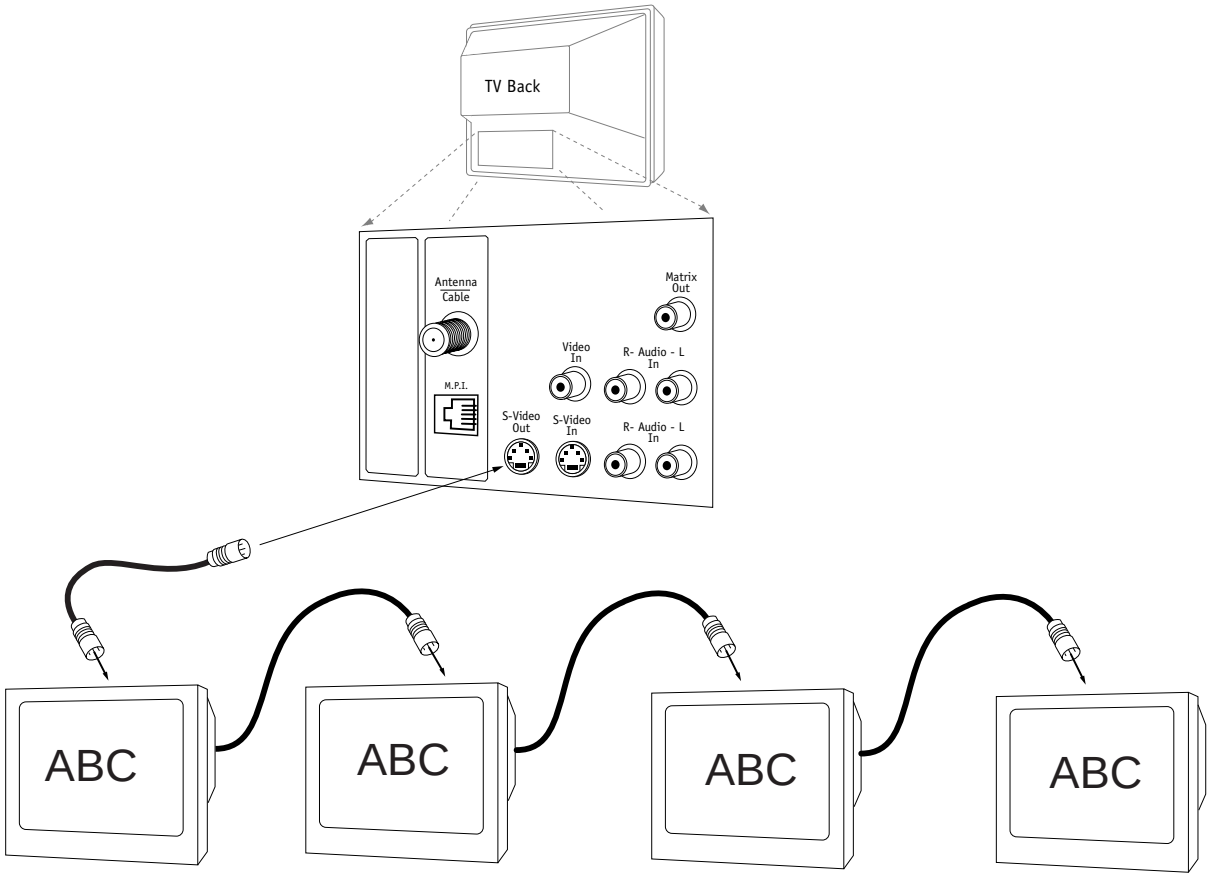
Setup for Looping-Out the Master TV's S-Video Image to other TVs

1. Make connections to the S-Video Out jack on the Master TV.

2. Connect S-Video cables to the daisy-chained TV's S-Video input jacks as shown.

3. On the "Daisy-chained" TVs, select the S-Video Input for the picture source.

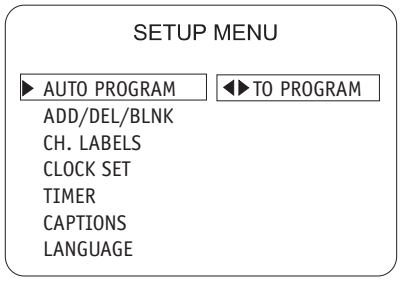
Viewing Sources Note:
Follow instructions supplied with your TV(s) for selecting viewing sources. Picture should appear on the Master and other TVs connected in series.



S-Video Loop-out from Master TV to other TVs

Auto Program (Channel Search)

Use Auto Program to specify Antenna or cable service incoming signal source and automatically store all of the channels found by the channel search



1 With the remote control in hand, press POWER to turn on the Presentation TV.

2 Press MENU repeatedly until the Setup menu appears.

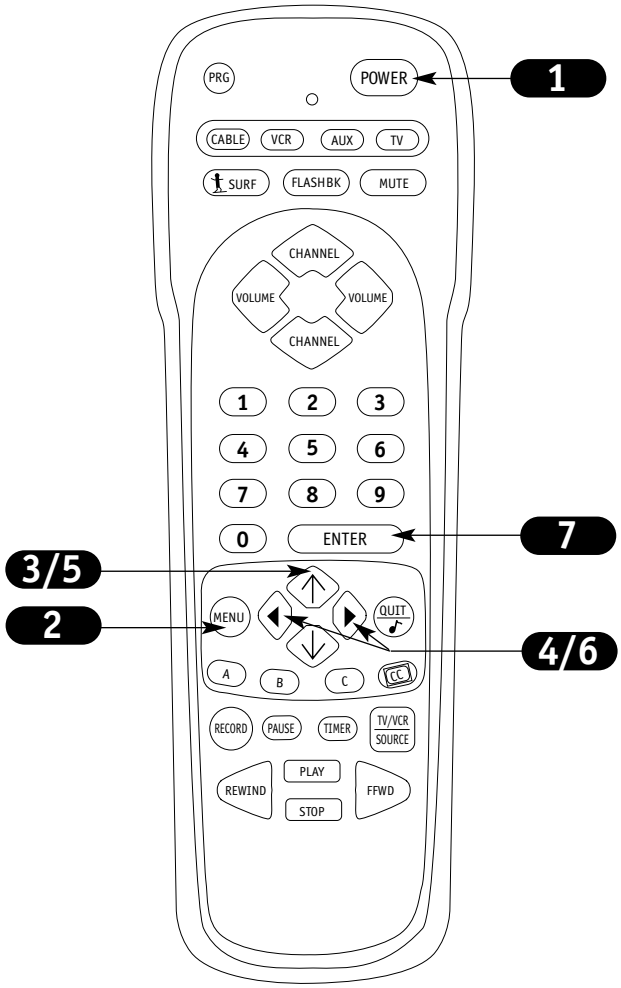
3 Using the UP arrow on the remote control, highlight Auto Program on the screen.

4 Press the Right or Left arrow to go to the Auto Program menu.

5 Using the UP arrow, choose either Cable TV or Off-Air Antenna on your screen.

6 Press the Right or Left arrow to begin the Channel Search.

7 Press ENTER when the channel search is complete.



Auto Program finds channels being received by the TV tuner.

Cable will not work unless you subscribe to a cable service.

Mini glossary

OFF-AIR-ANTENNA	If only over-the-air channels are available, select Off-Air-Antenna.
CABLE	If you subscribe to a cable service, select Cable.

Using the front control panel to access the menus

1 To access the menus, press the MENU button on the control panel. Cycle through the available menus by pushing the button repeatedly.

2 Press the SELECT button repeatedly to highlight the option you want to modify.

3 Use either the Right or Left ADJUST button to modify the selected option setting.

4 The menu will disappear after a few seconds.

A **Power**
Turns TV On/Off.

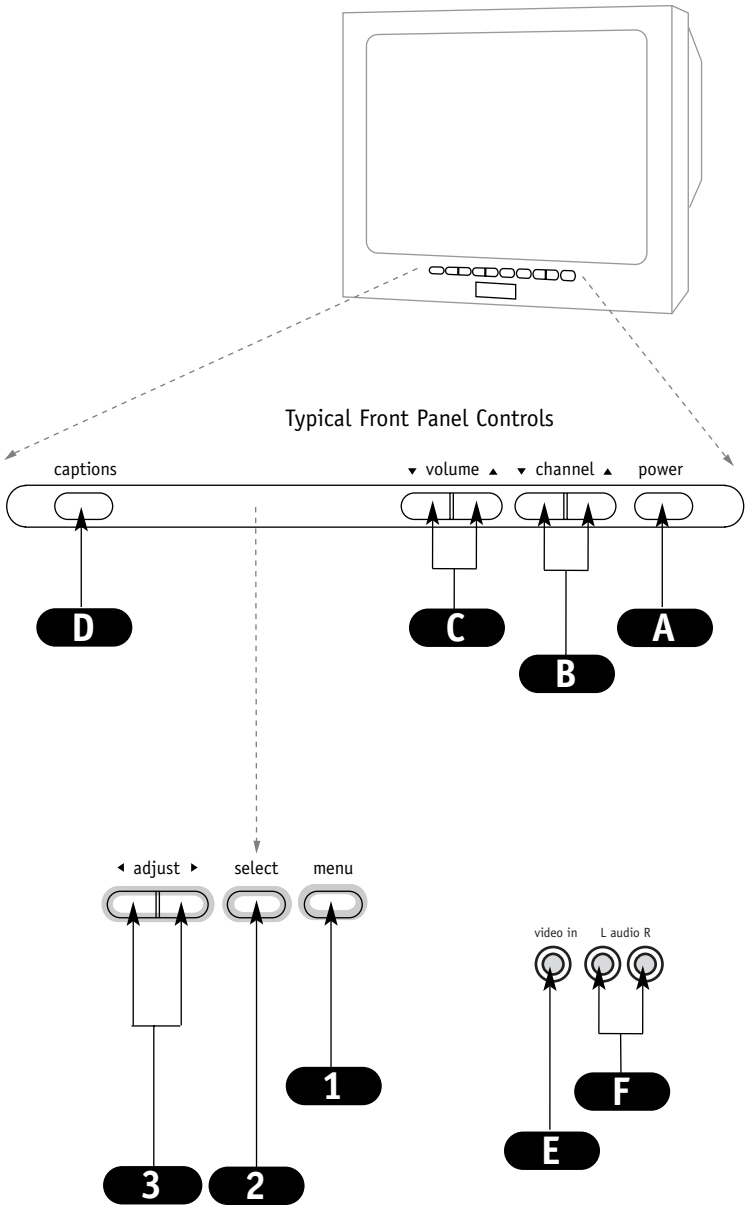
B **Channel Up/Down**
Chooses next available higher/lower channel.

C **Volume Up/Down**
Increases/decreases sound level.

D **Caption/Text**
Turns selected caption/text option On and Off.

E **Video In**
Input for a video signal from auxiliary equipment.

F **Left/Right Audio**
Inputs for sound from auxiliary equipment.

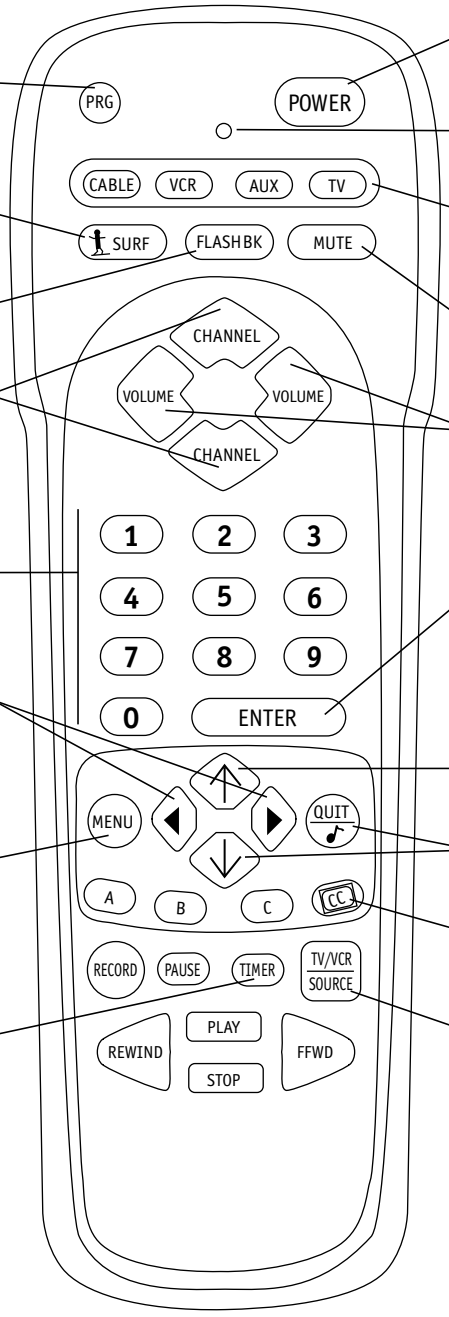


The Front Audio/Video jacks are a direct source connection. With cables connected, the TV will automatically change its source setting to CAMPORT, as indicated on the channel-time display.

If you have a device connected to the front Video jack, you will not be able to change channels until you have disconnected the device.

TV Mode Remote Key Functions

To put remote into TV operating mode, press TV



PRG (PROGRAM)
Programs remote to operate other products.

SURF
Accesses Channel preview menu.

FLASHBK (FLASHBACK)
Returns to the last channel viewed.

CHANNEL (Up/Down)
Chooses next higher/lower available channel.

NUMBER KEYPAD
Selects channels directly and enters numeric values for some options.

LEFT/RIGHT ARROWS
The Left/Right arrows *adjust* menu options.

MENU
Displays on-screen menus for TV mode.

TIMER
Displays the Sleep Timer menu.
Selects AM/PM in the clock menu.

POWER
Turns TV On and Off.

LED INDICATOR LIGHT
Lights when keys are pressed.

CABLE/VCR/AUX/TV (Mode Keys)
Switches remote mode to control other devices. AUX is for optional devices.

MUTE
Turns sound Off and On while the picture remains.

VOLUME (Left/Right)
Adjusts the sound level.

ENTER
Shows the Channel/Time display.
Press after channel numbers for instant selection.
Removes menus from screen.

UP ARROW
The Up arrow *selects* menu options.

QUIT, DOWN ARROW
Not functional.

CC (Closed Captioning)
Displays the closed captions/text menu.

TV/VCR-SOURCE
Switches between watching TV through the antenna/cable source, front or rear audio/video source, or S-Video source.

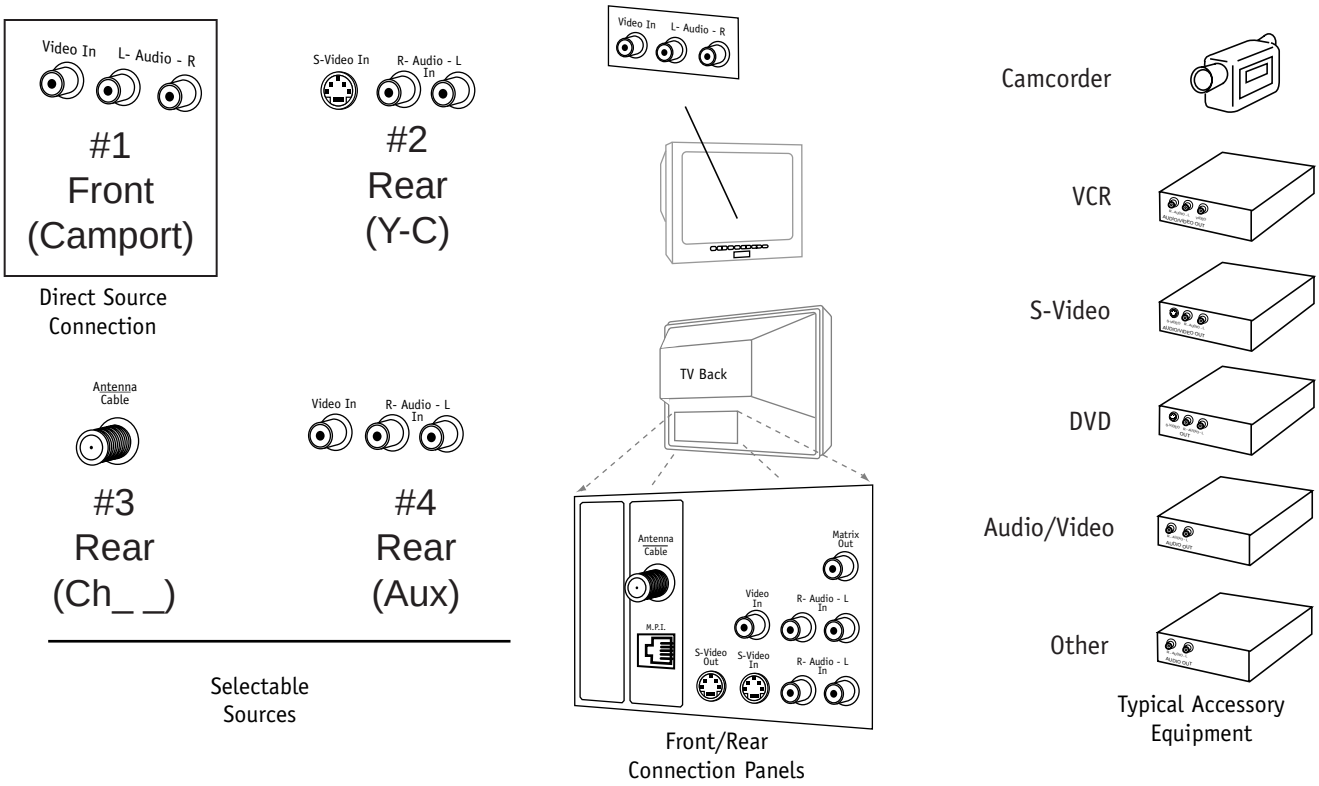
Keys dedicated to VCR functions will still operate your VCR while the remote is in TV mode.

See page 36 for remote key functions in other modes.

remote control part number
MBR3447CT
124-233-04

Picture/Sound Source Selection

Make direct connections, use the TV/VCR Source key, or use Channel Up/Down to choose the available picture and sound sources to appear on the TV screen



1 Make direct connection to Front Audio/Video In, to use this source when necessary. Disconnect when finished.

2 To access other available sources (Antenna/Cable, Rear S-Video In, or Rear Audio/Video In), press TV/VCR SOURCE repeatedly to show selectable sources on the screen.
Note: The rear Audio/Video In jacks can be selected by keying in 999 on the remote number keypad.

A direct source connection overrides all other sources. The front Video In jack is a direct source connection. If you have a device connected to this jack, you will not be able to change channels until you have disconnected the device.

Priority of Source Selection

Direct Source Connection, appears on TV screen at hookup

1. Front Audio/Video In (No other sources available)

Other Available Sources if

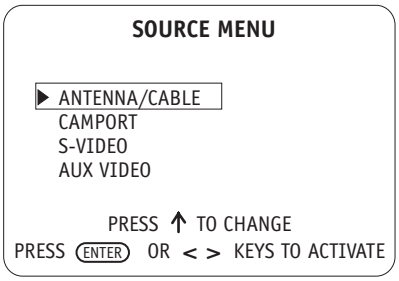
1. Front Audio/Video In has no equipment connected.
2. Rear S-Video In.
3. Antenna/Cable
4. Rear Audio/Video In

Select 2, 3, and 4 using TV/VCR Source or Channel Up/Down.

Note: Above source priority selection can be changed in the service menu, see service manual.

Source Menu

Make direct connections, use the TV/VCR Source key, or the Source menu to choose the available picture and sound sources to appear on the TV screen



Selecting picture and sound sources

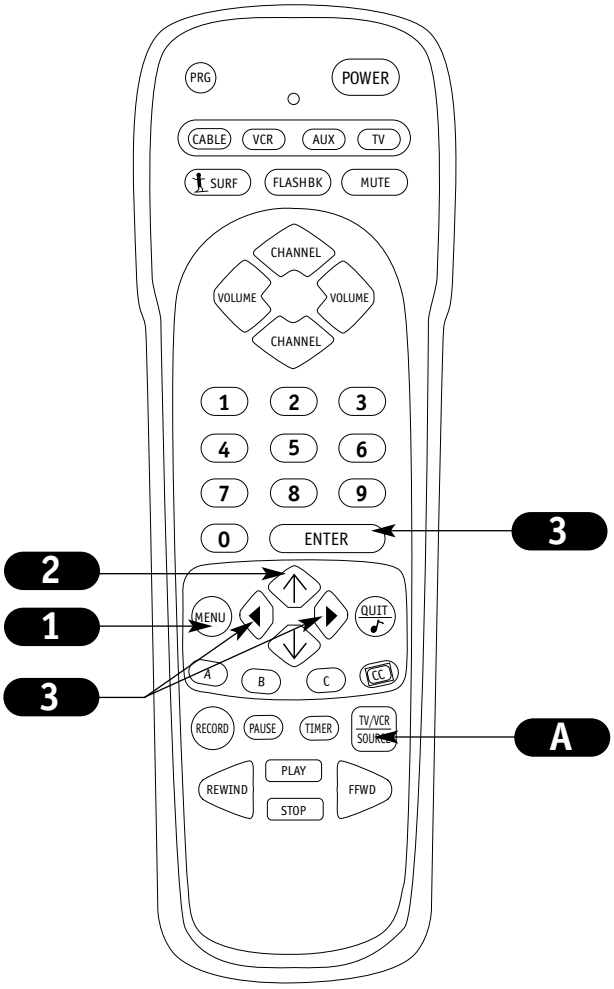
A Direct Source Selection
Press TV/VCR SOURCE on the remote repeatedly until the source you want to view is selected.

1 Selecting Source using Source Menu
Press MENU on the remote repeatedly until the Source menu appears.

2 Using the Up arrow to choose the input source.

3 Press ENTER, or the Left/Right arrow to go to source and to remove the menu.

Notes:
- Selectable sources appearing in the Source menu may vary depending on the installation setup for Auto Sense sources in the Service menu.
- Auto Sense sources appear on the TV screen automatically when they are connected.



A direct source connection overrides all other sources. The front Video In jack is a direct source connection. If you have a device connected to this jack, you will not be able to change channels until you have disconnected the device.

Mini glossary

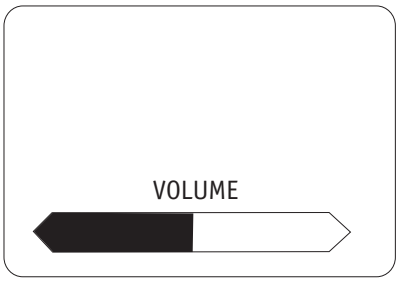
SOURCE	Input(s) providing the picture and sound to the TV.
AUTO SENSE SOURCE	Input(s) that the TV automatically switches to when connected.

Descriptions of the menus and on-screen displays

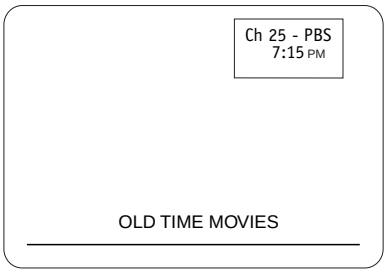
Using the MENU key and other keys indicated on the remote, the user can access the menus and displays described below.

Menu Name	Page	Description
		ON-SCREEN MENUS
SETUP MENU		Adjusts the basic features of the TV
Auto Program	14	Automatically finds and stores available active channels to scroll through using Channel Up/Down.
Add/Del/Blnk	20	Manually picks and chooses which active channels will appear when using Channel Up/Down.
Channel Labels	21	Labels your channels with their network names (ABC, CBS, HBO, etc.).
Custom Ch Labels	22	Create your own custom channel labels.
Clock Set	24	Sets the time.
Timer	25	Sets times for the TV to turn itself on and off each day.
Captions	26	Selects Caption/Text options.
Language	27	Chooses the language the on-screen menus will appear in: English, French, Spanish.
AUDIO MENU	28	Customizes the sound. The options are: Bass, Treble, Balance, Audio Mode, Front Surround, SoundRite, Audio Pref.
VIDEO MENU	29	Customizes the picture. The options are: Contrast, Brightness, Color, Tint, Sharpness, Picture Pref.
PARENTAL	30	Allows user to block program content or the A/V sources for up to 99 hours, with the use of a password.
CONTROL MENU		
SOURCE MENU	18	Selects the picture/sound source to appear on the TV screen.
		Other Menus and On-Screen Displays
Channel/Time	20	Shows the current time, channel, video and type of incoming audio signal, or mute, and XDS* info.
Sleep Timer	20	Sets the time the TV will turn off; press TIMER.
Volume	20	Shows current sound level setting; press VOLUME Up/Down.
Captions/Text	20	Turns selected Caption/Text option On and Off; press CC.
Ch Preview	20	Displays the available channels list; press SURF.
Installer Menu	41	Shows operational features adjustment levels and settings (for installer use).
		SERVICE MENUS See Service Manual
		*XDS (Extended Data Service) Shows title of program, if available on broadcast.

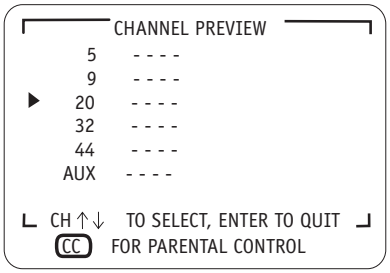
Use the remote keys indicated below to access these menus and displays



Volume Display
Press VOLUME. Shows currently selected sound setting.



Channel/Time/Audio Display
Press ENTER. Shows selected channel or source, current time if the clock has been set, in-coming audio signal, and XDS info if available.



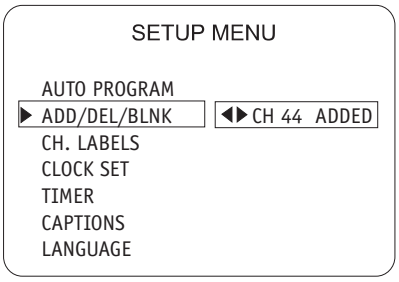
Ch Preview Menu
Press SURF. Displays list of the available TV Channels, sources, and provides Parental Control menu access.

Closed Captions Menu
Press CC. Turns selected option on or off. See Caption/Text page to select options.

Sleep Timer Menu (Disabled)
Press TIMER. Shows remaining time before TV turnoff. Press TIMER repeatedly to set a turn-off time. Note: Sleep Timer is disabled. See item 18 on page 39 to enable feature.

Setting Add/Delete/Blank

Fine-tune the channel selection list



1 Press MENU on the remote repeatedly until the Setup menu appears.

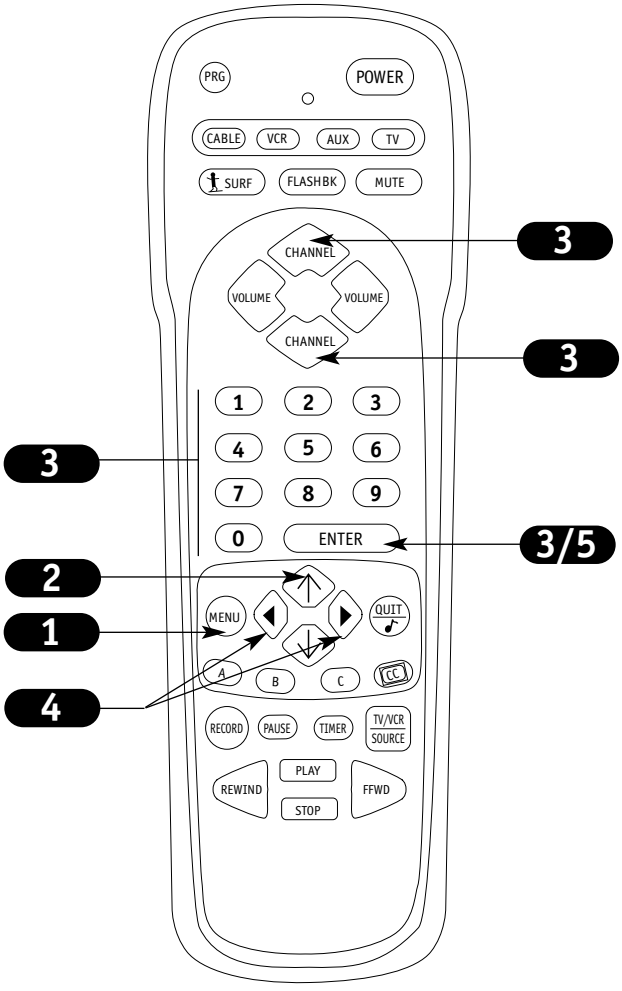
2 Press the UP arrow repeatedly to highlight the Add/Del/Blnk option.

3 Using either the NUMBER keypad and ENTER or the Channel Up/Down arrows on the remote, select a channel. (If adding a deleted channel, you will need to use the NUMBER keypad and ENTER.)

4 Using the Right or Left arrow, choose whether the channel is Added, Deleted, or Blanked.

5 To continue, select another channel and repeat Step 4. When you are finished, press ENTER to remove menu.

If you delete a channel, it isn't gone for good. Just select it using the NUMBER keypad on the remote, or add it later.

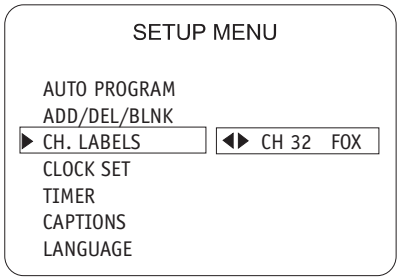


Mini glossary

ADD	Adds new channels to the list that the user can scroll through using Channel Up/Down.
DELETE	Removes channels for one reason or another from the channel scan list available using Channel Up/Down.
BLANK	Deletes the video but retains the audio, if present on a channel.

Setting Preset Channel Labels

Selecting channel names from the preset Channel Labels
(See page 22 to create your own custom channel labels)



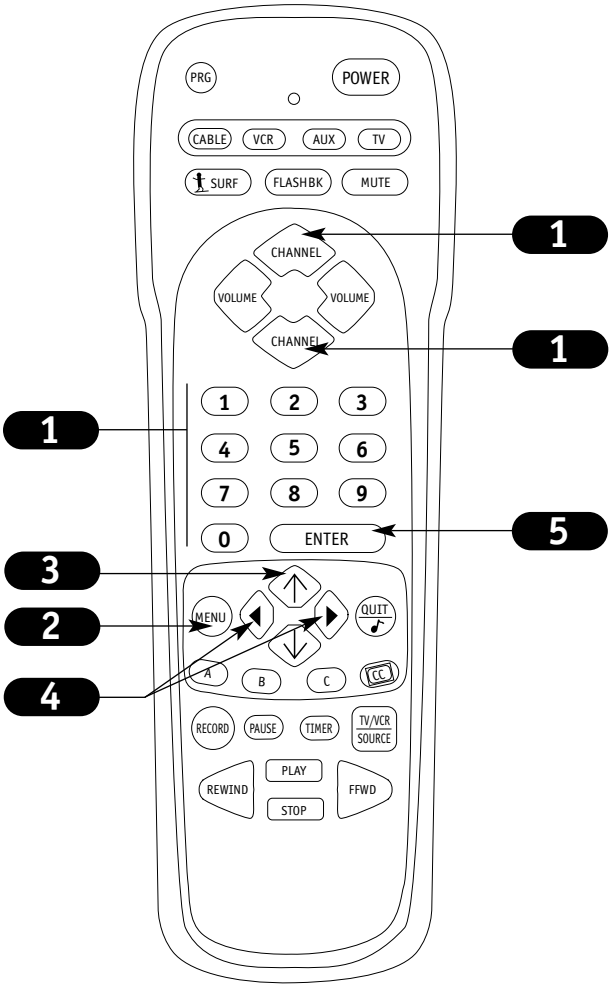
1 Using either the NUMBER keypad or the Channel Up/Down arrow on the remote, select a channel.

2 Press MENU on the remote repeatedly until the Setup menu appears.

3 Choose the Ch Labels option using the UP arrow.

4 Pressing either the Right/Left arrow repeatedly, pick the label you want from the available selections; such as A & E.

5 To continue channel labeling, select another channel or if you are finished, press ENTER to remove menu.



Some channels already provide a channel label which is included with the broadcast signal.

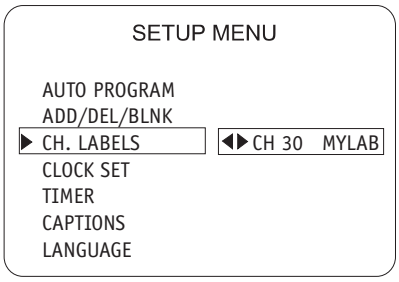
Labeling the channels helps identify which familiar nationwide channels are available. i.e., A & E - Arts and Entertainment, CNN - News, ESPN - Sports, HBO - Movies and so on...

Mini glossary

- - - -	The 4 dashes will allow a channel label to appear; if one is provided by the broadcaster.
NONE	Prevents any channel label from appearing.
LAB 1, thru **LAB 20**,	Are the 20 programmable labels. These 20 labels can be customized with 5 characters spaces available for each label.

Creating Your Own Channel Labels

Identify channels with your own custom channel labels



To Program a Channel Label

1 First select a channel using the NUMBER keypad and ENTER or the Channel Up/Down arrows, on the remote control.

(To select a deleted channel, use the NUMBER keypad and ENTER.)

2 To program a channel label, press MENU repeatedly to go to the Setup menu, then select CH LABELS.

3 Press the Right Adjust arrow to scroll the available preset labels. Scroll past - - - -, scroll past NONE, to go to the first programmable label slot, LAB 1 (Label 1). Notice that the label appears with the title LAB 1, and is also on a dark background; which will distinguish it from the preset labels.

Operating the Custom Labels Menu

4 Use Volume Up/Down to select the first letter.

a. Press MUTE to clear the label if necessary.

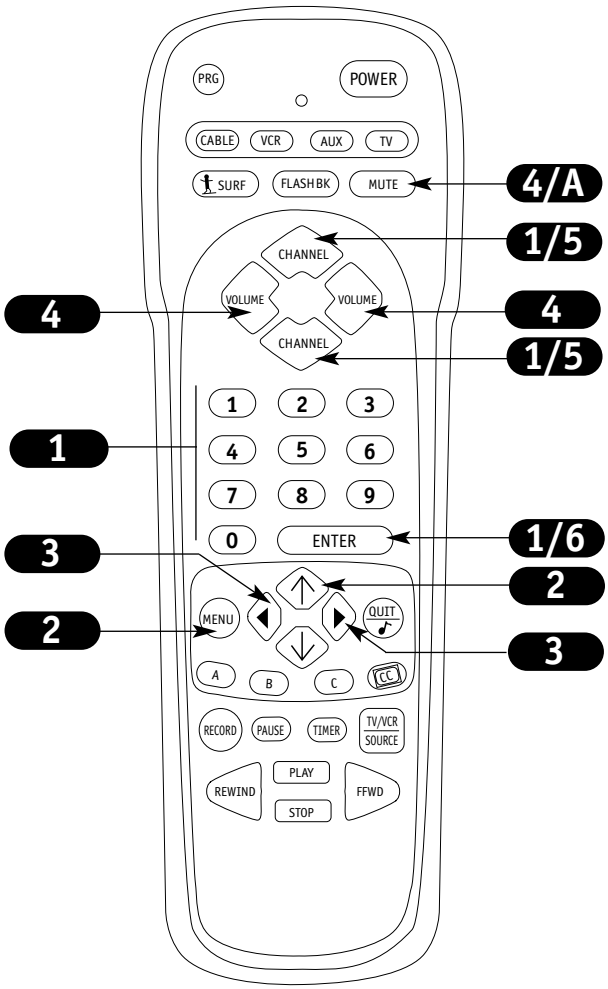
5 Use Channel Up/Down to scroll through and change the character to one of the 255 characters available.

Repeat Steps 4 and 5 to set characters for the other spaces available on the label.

6 Press ENTER to remove menu when finished.

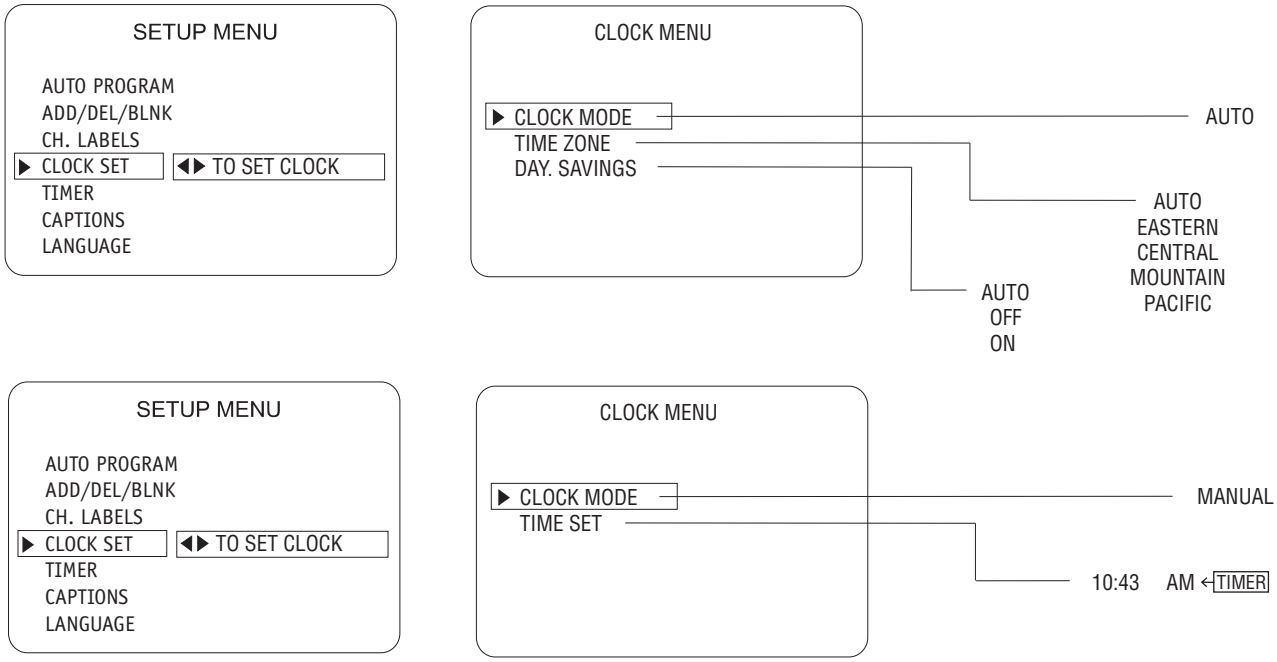
Menu Operation Notes:

Adjust Left/Right	Switches to the next label. - - moves to the next or previous label.
Volume Up/Down	Selects character spaces - - moves to the next or previous character space.
MUTE	Removes current label, - - if first character space is selected.
Channel Up/Down	Scrolls through the available characters.
ENTER	Accept the channel label and removes the menu.



Mini glossary

- - - -	The 4 dashes will allow a channel label to appear; if one is provided by the broadcaster.
NONE	Prevents any channel label from appearing.
LAB 1, thru **LAB 20**,	Are the 20 programmable labels. They can be customized for your needs with 5 characters spaces available on each label. (A blank letter space is available if required, after the "!" symbol.)



Clock Auto/Manual Operating Modes Setup

Use MENU, the Up/Down/Left/Right arrows to choose the Clock menu and to set up the clock menu options. Use TIMER to choose AM/PM.

Clock Mode

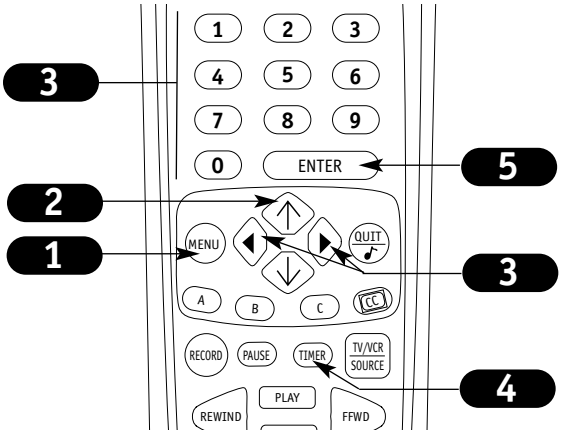
Auto: TV automatically sets the time.
Time Zone: User can choose the time zone or have the TV set it automatically.
Day. Savings: User can choose to have daylight savings adjust the clock time one hour, or have the TV adjust it automatically.

Manual: User sets the time on the clock.

Use ENTER repeatedly to remove menus.

The clock can also be set using 24 hour "military time." For p.m. settings add 1200. For example, to set 6:30 p.m., add 1200 to 630, = enter 1830.

For Auto Clock Set to work, TV must be tuned to a channel that has XDS data available. Auto Clock Set, sets the time only once while the TV is on. To set the clock with XDS data, turn TV off, then back on again, or set the clock time manually.



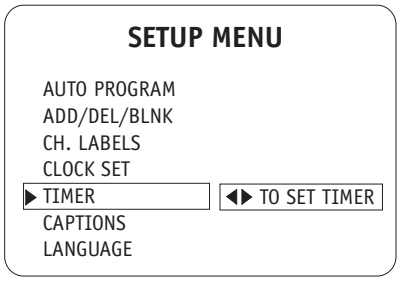
Clock time can be set using either the number keypad or the Left/Right arrows. Use TIMER to choose AM/PM.

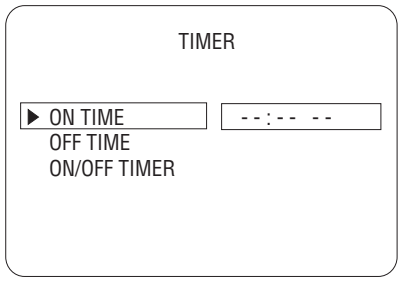
Mini glossary

TIME	A four-digit figure broken down into hours and minutes, used to enter the current time when setting the clock.
HOURS	First two digits that are entered when setting the clock.
MINUTES	The last two digits that are entered when setting the clock.
TIMER	Chooses AM or PM when setting the clock.

On/Off Timers Setup

Select times for the TV to turn itself on and of automatically





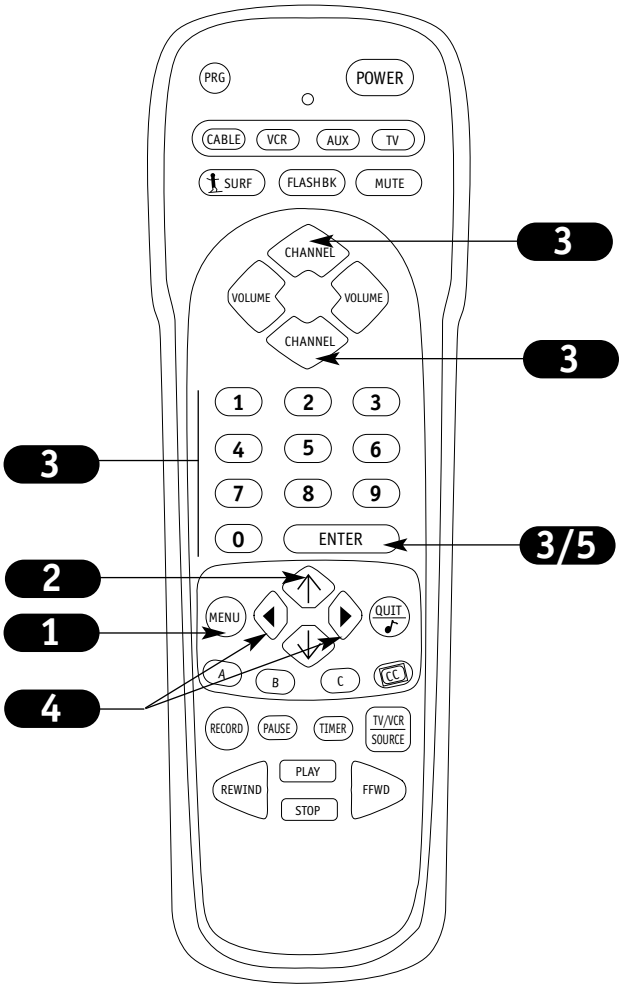
1 Press MENU on the remote repeatedly until the Setup menu appears.

2 Use the Up/Down arrow to highlight the Timer option, press the Right arrow.

3 Use the Up/Down arrow to highlight:
On Time: sets a time for the TV to turn itself on each day.
Off Time: sets a time for the TV to turn itself off each day.
On/Off Timer: Turns the timer feature on or off.
On: TV turns on/off, if turn-on/off times are set.
Off: TV does not turn on or off, however, any turn on and turn off times are retained in memory.

4 Using either the NUMBER keypad or Up/Down/Right/Left arrows on the remote, set turn on and or turn off times.
Set the On/Off Timer option to on or off.
Note: Use TIMER to choose AM and PM in menu.

5 When finished, press ENTER to remove menu.



You do not need to set an On Time to be able to use the Off Timer function.

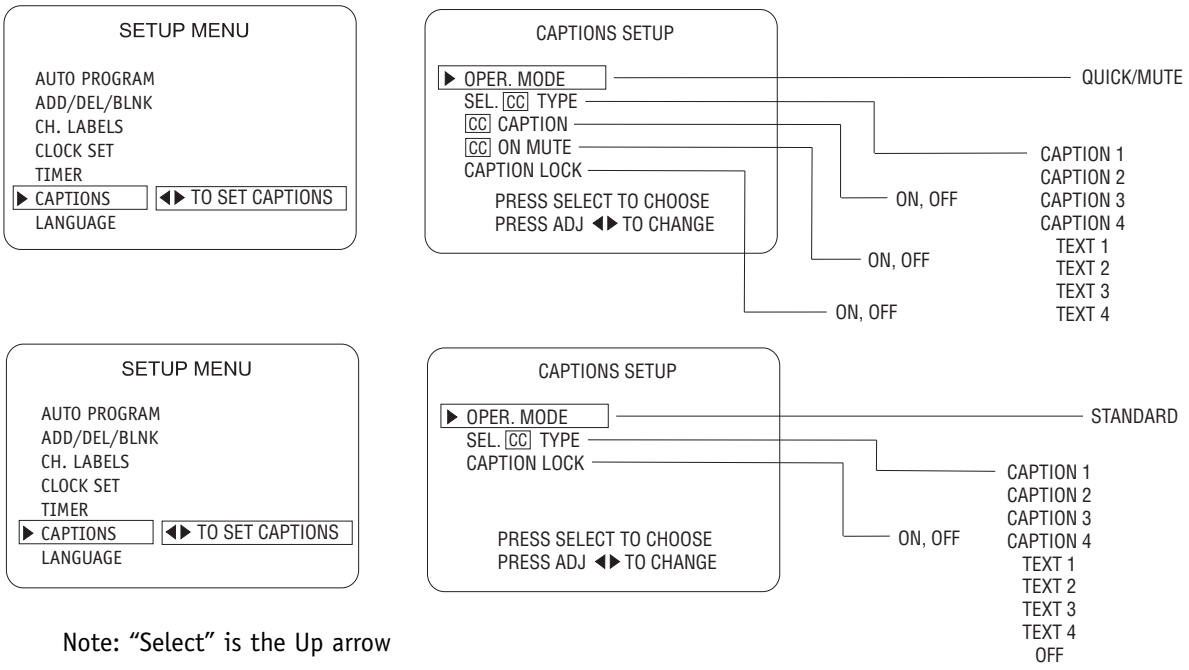
Clock must be set before Timers become functional.

Mini glossary

TIME	A four-digit figure broken down into hours and minutes, used to enter the current time when setting the clock.
HOURS	First two digits that are entered when setting the clock.
MINUTES	The last two digits that are entered when setting the clock.
TIMER	Chooses AM or PM when setting the clock.

Captions (Caption/Text Setup)

Set up Closed Caption/Text options for the user



Note: "Select" is the Up arrow

Closed Captions/Text Operating Modes Setup

Use MENU, SELECT (Up arrow), and ADJ (Left/Right) arrows to choose the Closed Captions/Text mode and to set up other menu options for the user.

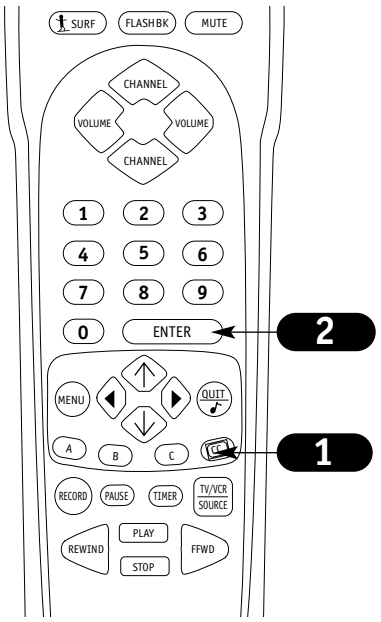
Quick/Mute — When CC is pressed: User can only turn Captions On/Off. (If CC on Mute is On, shows captions option on mute.) (If locked, type is retained with Power On/Off.)

Standard — When CC is pressed: User can choose a captions type. (If locked, type is retained with Power On/Off.)

Press ENTER to remove menus.

Standard closed captioning is available using the Caption 1 option.

Caption/Text are features which allow the TV to receive the closed caption and/or text options if made available by the broadcaster.
Availability and functionality of Caption/Text options are determined only by each broadcaster and may not be available in your area.

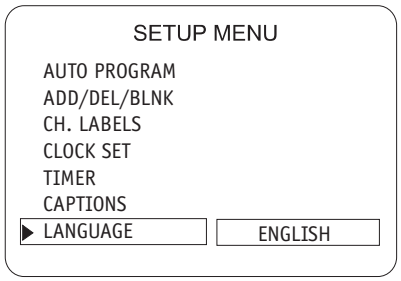


Mini glossary

CAPTIONS	The term for the words that scroll across the bottom of your TV screen; usually the audio portion of the program provided for the hearing impaired.
TEXT	The term for the words that appear in a large black frame and almost cover the entire screen; usually messages provided by the broadcaster.

Language

Choose the language for the on-screen menus

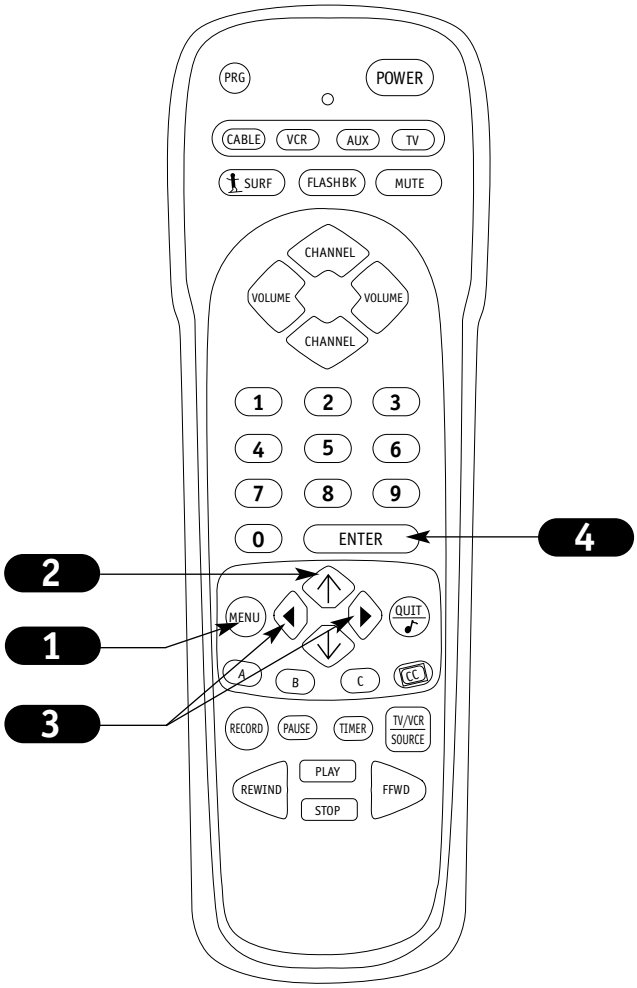


1 Press MENU on the remote repeatedly until the Setup menu appears.

2 Use the UP arrow on the remote control, to highlight Language on your screen.

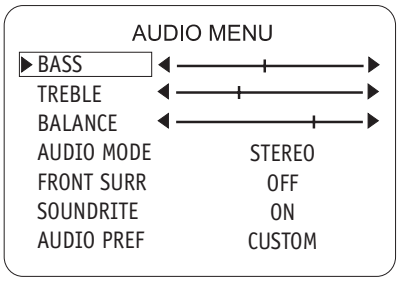
3 Use the Left/Right arrow to choose one of the following options: English, Spanish or French.

4 Press ENTER to return to TV viewing.



Audio Menu

Customize the sound coming from the TV



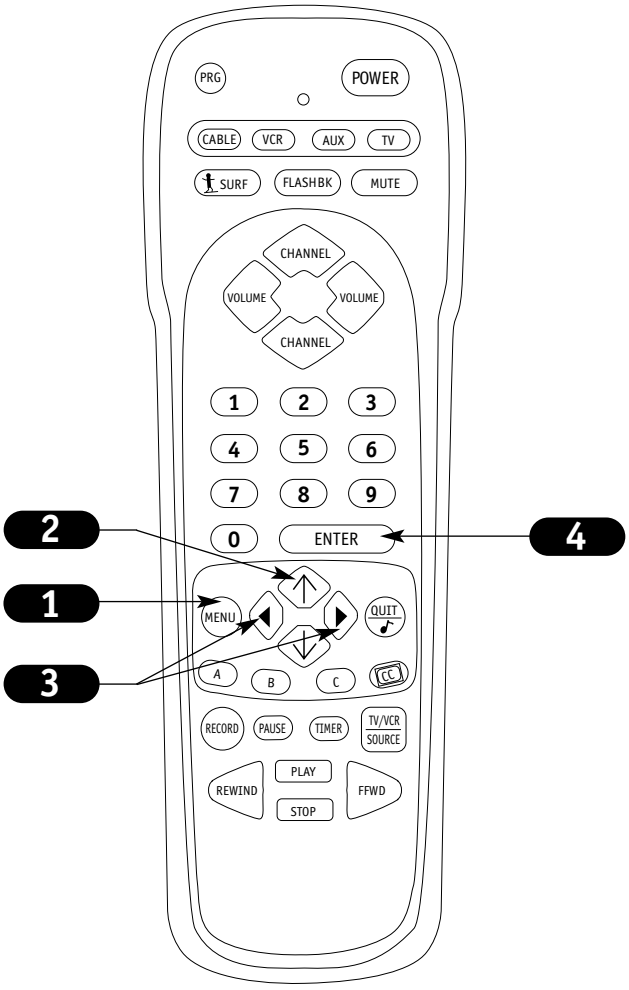
1 Press MENU repeatedly on the remote control until the Audio menu appears.

2 Using the UP arrow on the remote control, highlight the audio option you want to change. Choose from:

- **Bass**: Increases/decreases lower-end sounds.
- **Treble**: Increases/decreases higher-end sounds.
- **Balance**: Allows you to put the sound more to the left or right channel.
- **Audio Mode**: Choose from Stereo sound, Mono, or 2nd Audio/SAP.
- **Front Surround**: Turns front surround on or off.
- **SoundRite**: Turns the uniform volume feature on or off.
- **Audio Pref**: Selects Custom or Preset.

3 Using the Left/Right arrow, adjust or change the option setting you have selected.

4 Press ENTER to return to TV viewing, or press the UP arrow and return to the Audio menu to change other options.



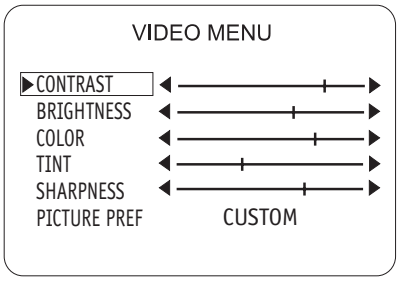
Not all programming is broadcast in stereo sound or has 2nd Audio SAP.

Mini glossary

STEREO SOUND	Stereo (stereophonic) sound refers to audio that's divided into right and left sides.
MONO SOUND	Mono (monaural) sound is one channel of sound. On more than one speaker, all the speakers play the same audio.
CUSTOM	Your own audio menu settings.
PRESET	Resets audio menu values to their original settings.

Video Menu

Use the Video Menu to customize the picture image



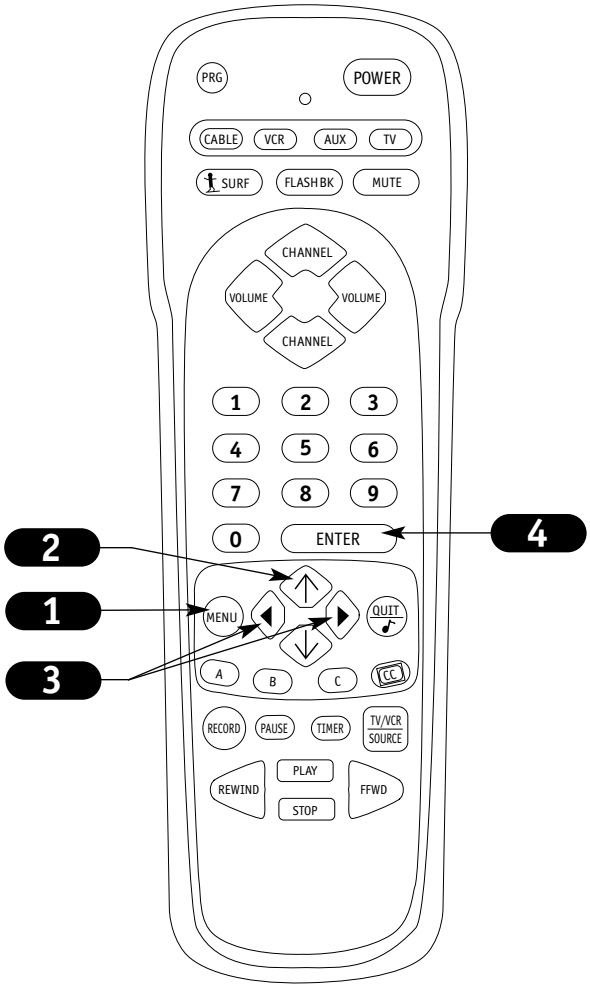
1 Press the MENU key repeatedly until the Video menu appears. Your options are:

- **Contrast**: Adjusts the level of difference between white and black in the TV picture. The more contrast, the brighter the picture appears.
- **Brightness**: Increases or decreases amount of white in the TV picture.
- **Color**: Adjusts levels of all colors in the TV picture.
- **Tint:** Adjust the relative amounts of the color red and green in your picture.
- **Sharpness:** Raise or lower the definition of the picture. The lower the level, the softer the image will appear.
- **Picture Preference**: Choose either Custom or Preset. Custom allows you to set the picture the way you want. Preset moves all the above options back to their original, factory-set levels.

2 Using the UP arrow on the remote control, choose Contrast on your screen.

3 Using the Left/Right arrow, change the contrast level to your preference.

4 Press ENTER, to return to TV viewing, or repeat from Step 2 to set the other menu options.



Choose the Preset option in Picture Preference to quickly reset the Video menu options to their original values.

Parental Control Menu

If used, this optional feature can "block" undesirable programming from appearing on the TV.

Parental Control offers the user a wide variety of options and settings that restrict or "block" the programming that can appear on the TV. Parental control allows the user the capability of defining which program rating they consider acceptable, to the younger or more sensitive viewer. It can be preset and turned either on or off by the user who specifies the secret 4-number code, the password. The number of hours blocked are specified. General audience and children viewer blocks should both be programmed into the TV's memory. Viewer ratings are specified for both TV and the motion picture industry; both rating systems should be used, for complete coverage. The ratings are based on the ages of children.

Overview

To insure complete coverage for all TV programs, (movies and regular TV shows) choose a rating for MPAA, from the selections below AND choose ratings from the TV Parental Guidelines Rating System on the next page, using the Age Block option for General Audiences, and for Children. In addition to those, you may wish to add additional restrictions from the Content Block menu. See the Parental Control menu, and submenus example on the next page.

Things to Consider before Setting Up Parental Control

• Determine which rating you consider acceptable to the viewer. (For example, if you choose TV-PG, all more restrictive ratings will be automatically blocked; the viewer will not be able to see: TV-PG, TV-14, or TV-MA rated programming.)

• Do you want to block the auxiliary video source entirely? (Blocks the signal sent by the equipment, such as a VCR, connected to the TV Audio/Video input jacks; in the Aux. Block option.) Or leave unblocked, then choose allowable ratings.

• Block program "Content" based on individual parameters such as: Strong Dialog, Bad Language, Sex Scenes, Violence Scenes, or Fantasy Violence Scenes; in the Content Blk option.

• How many hours do you want Parental Control to be active? You can set the Hours option for up to 12 hours.

• Select a secret password; in the Set Password option. Use the number keys on the remote. Don't forget the password, it is the only way you can access the Parental Control menu and change rating selections, or turn Parental Control off.

• Do you want Parental Control to be active all the time? If not, you can turn it on or off; with the Lock On/Off option.

You should set different Parental Control viewing restrictions for general audiences and for children - - both can be active at the same time.

Simply specifying one content block such as Sex Scenes, will not automatically block another content in the programs from appearing.

You cannot disable Parental Control by disconnecting the TV from power. Block hours remaining will be retained if power is lost or power cord is disconnected.

The AUX input source can also be blocked.

Mini glossary

MOTION PICTURE ASSOCIATION OF AMERICA (MPAA) RATING SYSTEM

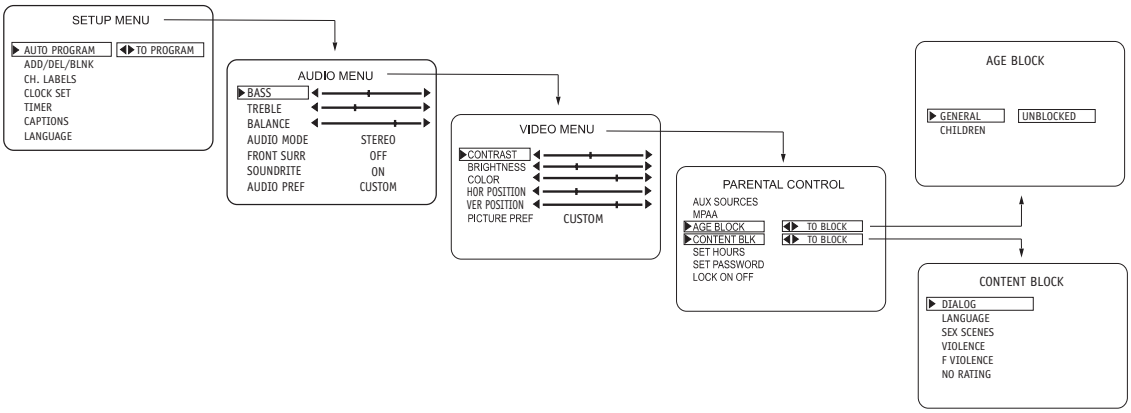
G	General Audiences	Content not offensive to most viewers.
PG	Parental Guidance Suggested	Content is such that parents may not want their children to view the program.
PG-13	Parental Guidance Suggested	Program is inappropriate for preteens, with a greater degree of offensive material than a PG rated program.
R	Restricted viewing	Not for children under age 17. Strong elements of sex and/or violence.
NC-17	Restricted Viewing	Not for children under age 17 under any circumstances. Strong sexual content.
X	Hard Core Films	Same as NC-17 rating.

Note: Zenith Electronics Corporation is not liable for any program content that appears when using this rating system; as always, user discretion is advised.

Parental Control Menu

After you have read the preceding page, follow instructions below to set up and activate Parental Control

1

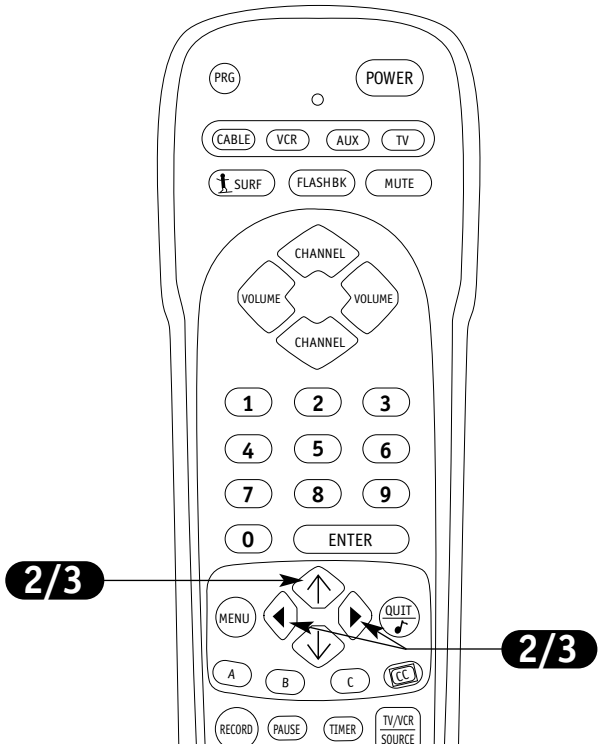


2 As shown above, with the Parental Control menu on-screen, use the UP arrow to highlight an option like Content Block, then press the Right arrow.

3 Use the Up/Left/Right arrows to select and adjust or set the rating for an option. For Sex Scenes for example, use the "From TV-PG" setting. (See the Mini Glossary, Ratings Charts on this and the previous page for rating definitions.)

4 After you have selected and adjusted the Parental Control menu options to your preferences:
- Set the hours you want Parental Control active.
- Set a 4-number password.
- Set the Lock On/Off option to either on or off.

No Rating means the broadcast does not include rating information. You can choose to block broadcasts without rating data.

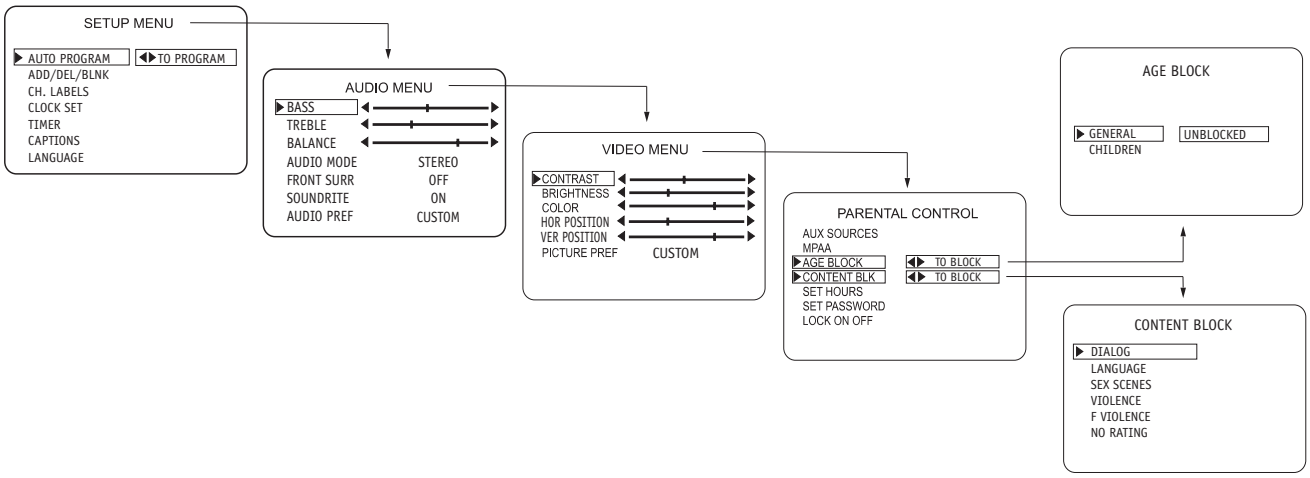


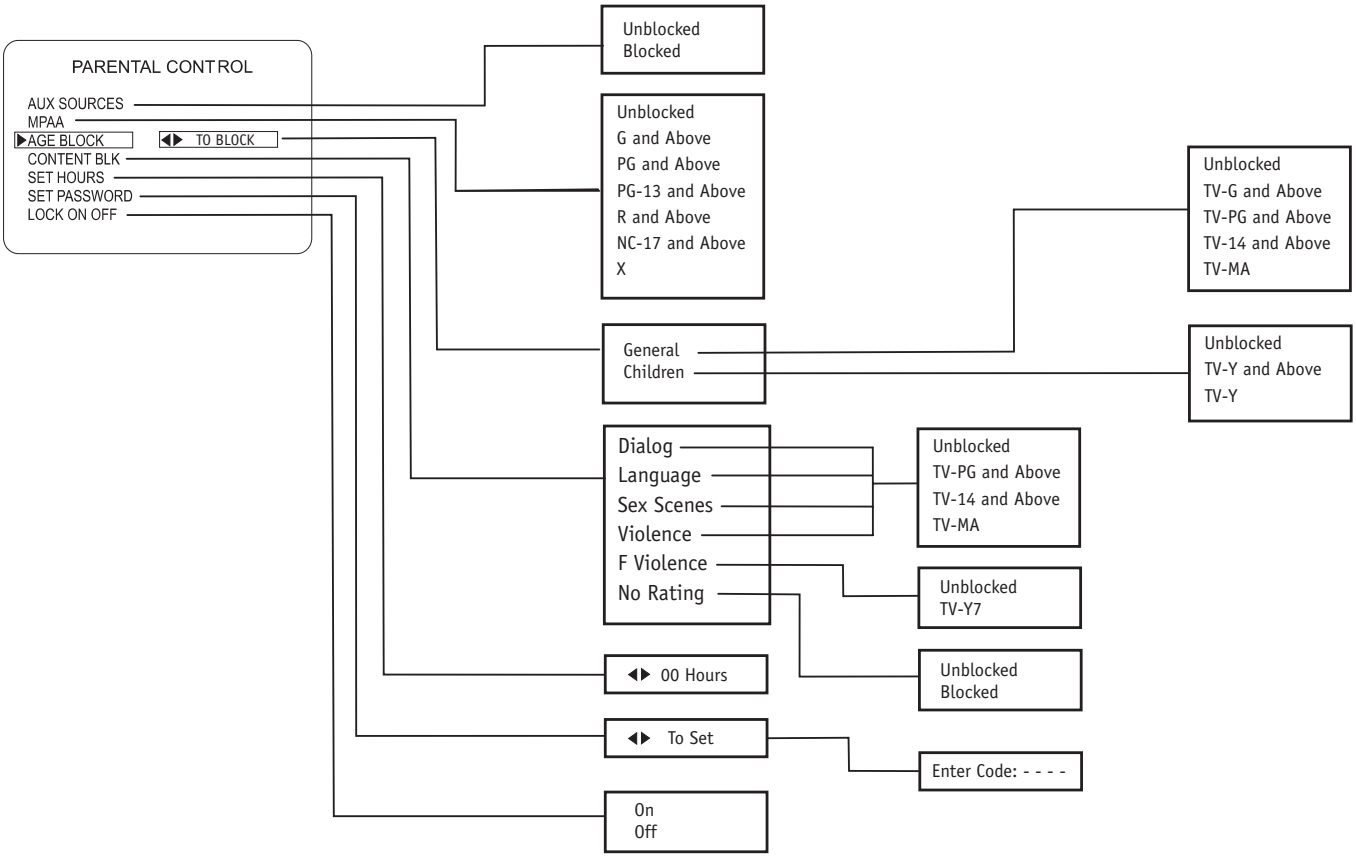
Mini glossary

TV PARENTAL GUIDELINE RATING SYSTEM

TV-G	General Audience	Considered suitable for all audiences; children may watch unattended.
TV-PG	Parental Guidance Suggested	Unsuitable for younger children, may contain: Suggestive Dialog, Bad Language, Sex, and Violence Scenes.
TV-14	Parents Strongly Cautioned	Unsuitable for children under 14, may contain: Strong Dialog, Bad Language, Sex, and Violence Scenes.
TV-MA	Mature Audience Only	Adults only, may contain: Strong Dialog, Bad Language, Sex, and Violence Scenes.
CHILDREN'S CLASSIFICATIONS		
TV-Y	Children	Considered suitable for all children under 7 years old.
TV-Y7	Children 7 and over	Considered suitable for children over 7, may contain Fantasy Violence Scenes.

Typical Parental Control system menus with various restriction options are shown below





Notes

Reset the Maximum Number of Parental Control Default Block Hours

You can change the Block hours from the 12-hour default setting to up to 99 hours.

In the Factory Menu, item: 50 MAX BLK HRS 12, use the ADJ Left/Right adjust arrow to set a different default number of hours.

To Turn the Parental Control Feature Off/On

In the Factory Menu,

Items: 52 V-CHIP 0 or 1, 63 DIS. VCHIP M. 0 or 1

Options Setups for V-Chip Menu and Block Functions

52 V-CHIP	63 DIS. VCHIP M.	
0	0	Shows menu, no blocking.
0	1	No menu, no blocking.
1	0	Shows menu, Block functions.
1	1	No menu, Block functions.

Programming the Remote

Program your remote to operate a variety of A/V devices

1 The device you want to program should be ON.

2 Refer to the brand programming codes on pages 38 - 39 to find the type and brand name of the device you're programming. Write down the three-number code(s).

3 Press and hold the PRG key. It's recessed so it doesn't get pushed accidentally. When the indicator light turns on, you can release the key.

4 Push the key with the name of the device you're programming (VCR, CABLE, AUX, TV).

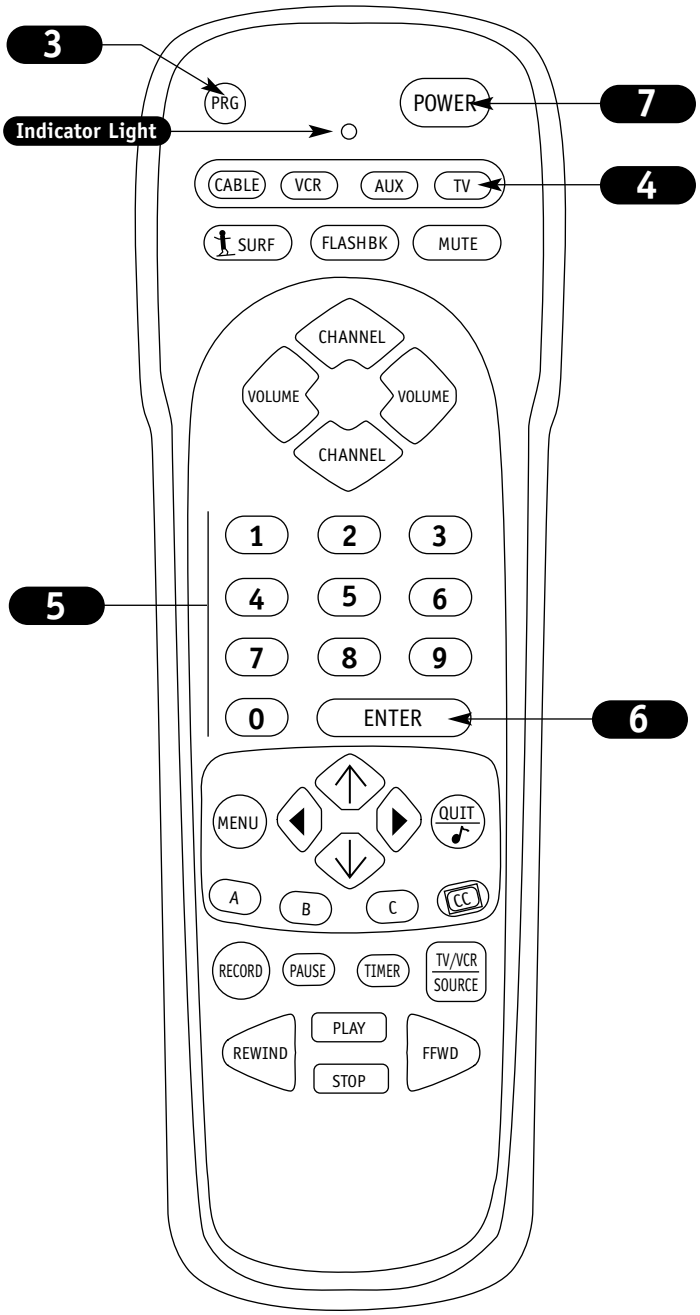
5 Using the NUMBER keypad, enter the three-number code found on the charts on pages 38 - 39.

6 Press ENTER to save the code The indicator light will flash three times and turn off if the code was accepted.

7 Point the remote at the device and push the POWER key. The device should turn off. If not, try the other codes listed and continue from Step 3.

Programming your Zenith remote will allow you to use one remote to work up to 7 different devices!

Not all devices will work with your Zenith remote control.

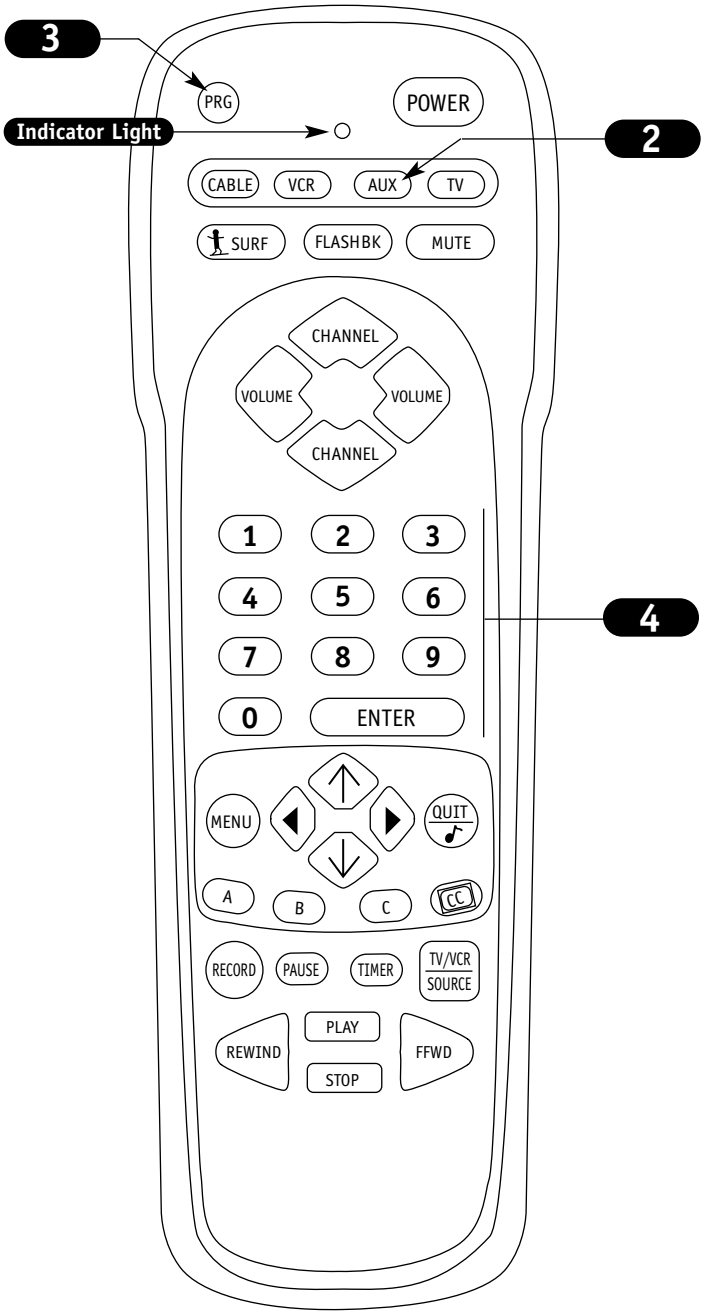


Mode / Product Compatibility			
TV	VCR	CATV	AUX (AUX+1, AUX+2, AUX+3)
TVs	VCRs	Cable Boxes, Satellite Receivers	All products on pp. 38 - 39

206-4544 2/1/01

Amplifier Volume Override

Sets up your amplifier to be operated in all remote control modes



1 Find the code that operates your amplifier. Test it to make sure it's the correct one by following the procedure in "Programming Your Remote" on the previous page.

2 Program your audio system into one of the available AUX modes: Aux, Aux+1, Aux+2, or Aux+3.

3 Press and hold PRG on your remote until the indicator light stays lit, then release.

4 Press 4-9-9; then ENTER on the remote. The indicator light will flash three times if the code was accepted.

Audio system volume/mute now appears in all modes.
Note: You can also program Cable Box Volume and Mute control (if available) into your cable box mode (CABLE or AUX mode) by repeating the steps for programming on the previous page but entering 3-9-9, instead of a brand code, then pressing ENTER.

Your volume and mute keys now control your amplifier, while all the other keys still operate the Presentation TV. To put everything back to normal, reprogram all modes with their original codes (see the "Programming Your Remote" page).

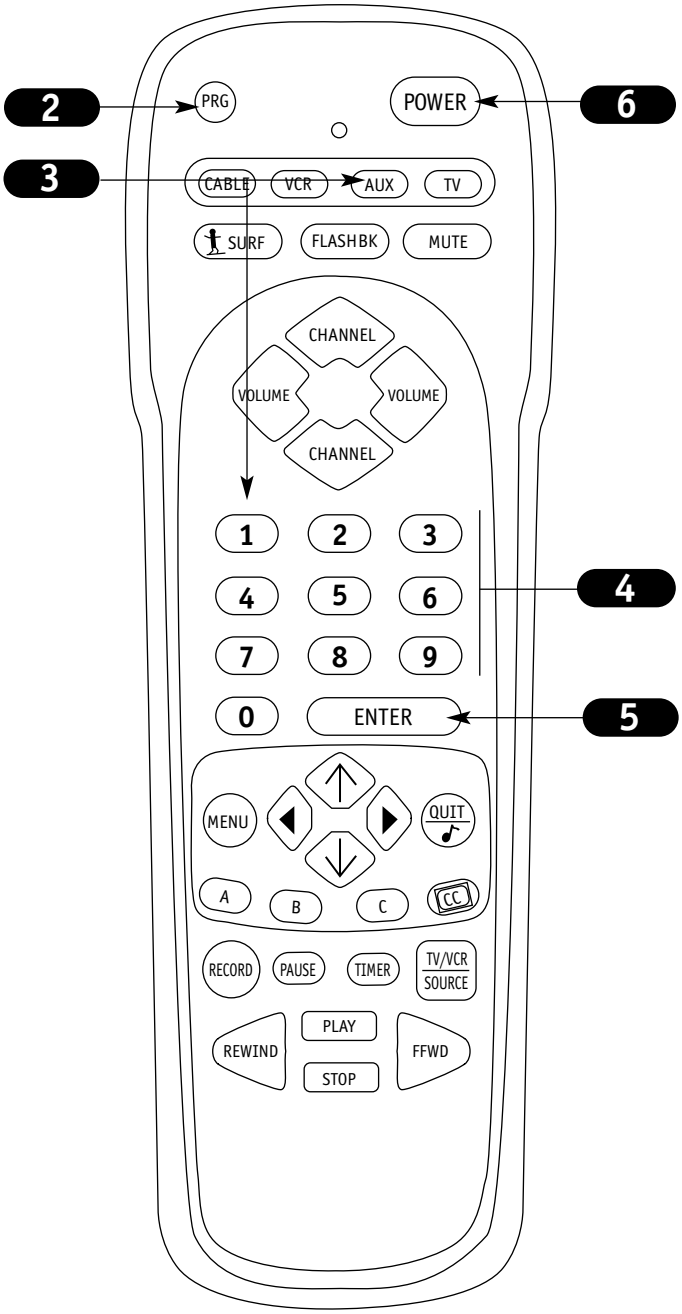
Mini glossary

AMPLIFIER	An electronic device that amplifies sound from a television, CD player, VCR, or other A/V device.

AUX+1, AUX+2, AUX+3

There are 3 additional AUX modes you can program

1. Refer to the brand programming codes on pages 38 - 39 to find the type and brand name of the device you're programming.
2. Press and hold the PRG key until the indicator light turns on.
3. Press the AUX key and the 1 on the NUMBER keypad at the same time (for AUX +1).
4. Using the NUMBER keypad, enter the three-number code for the device you've selected.
5. Press ENTER to save the code.
6. Turn the device on. Point the remote at the device and press POWER. It should turn off.
7. Repeat the steps to program AUX+2, and AUX+3.



Programming your Zenith remote will allow you to use one remote to operate up to 7 different devices.

Some devices may not work with the Zenith remote control.

Remote Control Auto-Find

If Programming the Remote did not find your product's code, try this procedure, to automatically find the code for your device. If your remote becomes inoperable, go back to "Programming your Remote" and enter the Zenith TV code for step five

1 Turn on the device you're programming into a remote control mode.

2 Press and hold the PRG key until the indicator light turns on.

3 Press the key for the device you're trying to program (CABLE, VCR, AUX, TV).

4 Enter the code 0-0-0 (zero-zero-zero), then press the ENTER key right away.

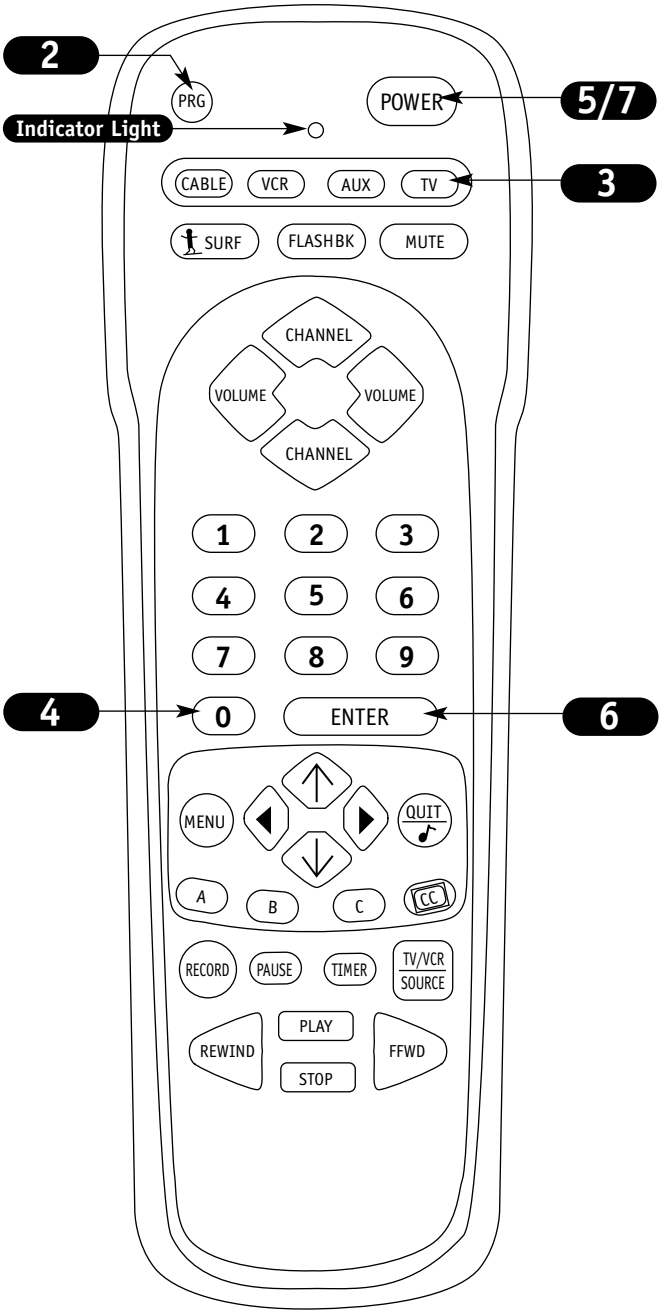
5 Point the remote at the product and press POWER. Allow a second to pass, then push the POWER key again. Repeat until the device turns off. (This is a trial and error process. It may be necessary to repeat the above steps until the remote finds a code that will operate the product.)

6 Push ENTER to save the code.

7 Press POWER to turn the device back on.

You can quickly get out of Auto Find by pressing QUIT.

If the indicator light stays on while you push Power, instead of turning off, all the codes have been tried and the device can't be programmed.



Brand Programming Codes

Find the codes you need to program your remote. On this page: TVs, VCRs, Cable Boxes, and HD/Set Top Boxes

TVs

Daewoo 149

Zenith 101 121 149 152

TV/VCR Combination Codes

Adventura TV/VCR . 154

Daewoo TV/VCR . . 148

Funai TV/VCR. . . . 154

Goldstar TV/VCR. . 153 172

Symphonic TV/VCR 154

Zenith TV/VCR . . . 150 152 153 154 172

VCRs

Admiral 261

Akai 292 717 718 719 720

Audio Dynamics . . 726

Bell & Howell 247

Broksonic 221 250 255 729

Candle 727

Canon 704

Capeheart 728

Citizen 727

Craig 212

Curtis Mathes . . . 259 266 725 727

Daewoo 244 246 248 254 703 729

Daytron 246

DBX 726

Electrochrome. . . . 730

Emerson 203 221 243 250 293 721 722 729 730 731 732

Fisher 211 212 213 247 265 274

General Electric . . 216 220 266 282 701 702 725

Go Video 256 262 263 700

Goldstar 253

Harmon Kardon . . . 296

Hitachi 257 270 273 292 705 706 707 708

J.C. Penny 268 726

Jensen 292

JVC 224 225 258 268 292 299 726

Kenwood 268 292 726 727

Magnavox 275

Marantz 267 268 726 727

Memorex 212 298

MGA 297 730

Mitsubishi 276 277 278 279 280 296 297 730

Montgomery Ward 216 219 249 291 730

MultiTech. 727

NEC 267 268 269 281 292 709 726

Orion 250

Panasonic 245 251 259 713 714 715 716

Pentax 708 727

Philco. 275

Pioneer 210 282 726

Portland 246 727

ProScan 216 260 266 282 725

Quasar 259 295

Radio Shack 213 265 730

RCA 216 220 228 240 242 249 260 266 282 283 284 285 286 287 288 708 710 711 725

Realistic 212 213 265 730

Saisho. 722

Salora 297

Samsung 220 230

Sansui 289 292 709 726

Sanyo 212 247 294

Scott 243 290 729

Sears 211 212 213 265 274

Sharp 261 730

Signature 2000 . . . 216 219 249

Sony 232 723 724

Sylvania 275 297

Tatung 268 292

Teac 268

Teknika 272

Toshiba 213 274 290 297

Vector Research . . 726 727

Victor 726

Video Concepts . . . 726 727

XR - 1000 243

Yamaha 726

Zenith 201 224 225 229

Cable Boxes

Allegro 358 362

Allegro A-B Switch 361

Archer 325

Century 325

Citizen 325

Comtronic 326

Everquest 379

Garrard 325

Gemini 305 331 338

General Electric. . . 367

General Instrument 304 305 306 307 308 309 310 318

Hamlin 302 303 345 365 366

Jasco 325

Jerrold 304 307 308 309 310 318 360 363

Kale Vision 335

Macom 321

Magnavox 327 334

NSC 335 339 368 369 370

Oak 311 332 342

Panasonic 313 320

Philips 325 327 347 350 352 354 355

Pioneer 315 343

RCA 341

Regency 329

Samsung 326 335

Scientific Atlanta 316 323 336 337 364

Signal 326

SL Marx. 326

Sprucer 313

Standard Comp . . . 335

Stargate 326 379

Teleview 326

Texscan 339 356 371

Tocom 317 318 346

Unika 325 348 362

Universal 325 358 362

Vid Tech 340

Video Way 349

Viewstar 327 354 355 372

Zenith HT-2000. . . 353

Zenith PM 374

HD/Set Top Boxes

Echostar 805

Hughes 803

Philips 802

RCA 804

Sony 801

Zenith 800

Brand Programming Codes

Find the codes you need to program your remote. On this page: Satellite Receivers, DVD Players, Audio CD Players, Audio Tape Decks, and Audio Tuners/Amplifiers

Satellite Receivers

Alphastar 516
Chaparral 501 502
Cheyenne 502
Dishnet 515
Drake 503
General Electric . . . 510 517
General Instrument 504 505
Hitachi 519 520
Hughes Network . . 514
JVC 518
Macom 314
Magnavox 521
Phillips 521
PrimeStar 513
ProScan 510 517
RCA DSS 373
RCA 510 517
Realistic 506
Sierra I 502
Sierra II 502
Sierra III 502
Sony 511
STS1 507
STS3 508
Toshiba 509 512
Uniden 522
United 344
Zenith Drake 312 330
Zenith Satellite . . 328 351 378 500

DVD Players

JVC 965
Mitsubushi 964
Pioneer 963
Sony 962
Toshiba 961
Zenith 960

Audio CD Players

ADC 940
ADO 939
Aiwa 938
Akai 937
Denon 935
Dynatech 953
Emerson 952
Fisher 438 933 951
GE 932
Goldstar 460
Hitachi 950
JVC 949 954
Kenwood 441 931 948
Luxman 930
Magnavox 421 422 433 434
Marantz 929 947
MCS 928
Mitsubishi 927
Nakamichi 925 926
Onkyo 923 924 946
Optimus 920 921 922
Panasonic 431 432 945
Phillips 421 433 434
Pioneer 431 435 944
Quasar 432
Radio Shack 431 441
RCA 437 943
Sanyo 438 439
Sears 936
Sharp 441 442
Sherwood 449
Sony 420 443 444 445 934
Soundesign 461 498 901 902
Sylvania 433
Teac 418 419
Technics 432
Toshiba 915
Yahama 414 941 942
Zenith 460 461 498 901 902
Zenith CD Rec . . . 415

Audio Tape Decks

Sony 452

Audio Tuners/Amps

Citizen 914
GE 916
Goldstar 460 474
Hitachi 919
JVC 908
Kenwood 484
Luxman 467
Marantz 903 913
Memorex 485
Nad 904
Nakamichi 493
Onkyo 471 906
Optimus 905
Panasonic 912
Pioneer 470 485 907
Proton 910
Quasar 912
RCA 909
Sharp 483 917 918
Sherwood 900
Sony 486 489 490 491 492
Soundesign 461 498 901 902
Toshiba 915
Techniques 912
Victor 908
Zenith 460 461 498 901 902

Remote Operating Mode Key Functions

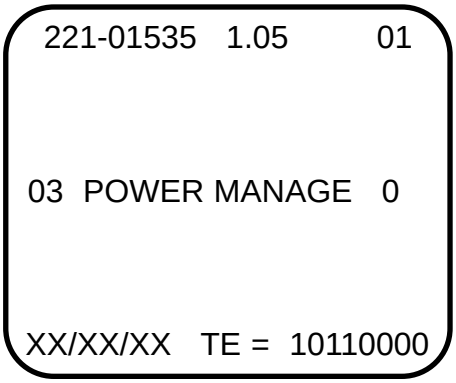
A list of key functions by mode for the remote control

KEY NAME	TV Mode Zenith Code 101	VCR Mode Zenith Code 201	Cable Box Mode Zenith Code 353	AUX Mode Zenith Code 960
PRG	Program Mode Codes	Program Mode Codes	Program Mode Codes	Program Mode Codes
POWER	TV On/Off	VCR On/Off	Cable Box On/Off	AUX On/Off
CABLE	Selects Cable	Selects Cable	Selects Cable	Selects Cable
VCR	Selects VCR	Selects VCR	Selects VCR	Selects VCR
AUX	Selects AUX	Selects AUX	Selects AUX	Selects AUX
TV	Selects TV	Selects TV	Selects TV	Selects TV
Surf	Channel Preview	VCR SP/EP	Cable FC/Fav Ch	AUX Audio
FLASHBK	TV Flashback	VCR Flashback	Cable Flashback	AUX Return
MUTE	TV Mute	TV Mute	TV Mute	TV Mute
CHANNEL UP	TV Channel Up	VCR Channel Up	Cable Channel Up	AUX Skip >>
CHANNEL DOWN	TV Channel Down	VCR Channel Down	Cable Channel Down	AUX Skip <<
VOLUME (RIGHT)	TV Volume Up	TV Volume Up	TV Volume Up	TV Volume Up
VOLUME (LEFT)	TV Volume Down	TV Volume Down	TV Volume Down	TV Volume Down
1	TV Digit 1	VCR Digit 1	Cable Digit 1	AUX Digit 1
2	TV Digit 2	VCR Digit 2	Cable Digit 2	AUX Digit 2
3	TV Digit 3	VCR Digit 3	Cable Digit 3	AUX Digit 3
4	TV Digit 4	VCR Digit 4	Cable Digit 4	AUX Digit 4
5	TV Digit 5	VCR Digit 5	Cable Digit 5	AUX Digit 5
6	TV Digit 6	VCR Digit 6	Cable Digit 6	AUX Digit 6
7	TV Digit 7	VCR Digit 7	Cable Digit 7	AUX Digit 7
8	TV Digit 8	VCR Digit 8	Cable Digit 8	AUX Digit 8
9	TV Digit 9	VCR Digit 9	Cable Digit 9	AUX Digit 9
0	TV Digit 0	VCR Digit 0	Cable Digit 0	AUX Digit 0
ENTER	TV Enter	VCR Enter	Cable Enter	AUX Display
MENU	TV Menu	VCR Menu	Cable Menu	AUX Menu
UP ARROW	TV Select Up	VCR Select Up	Cable Up Arrow	AUX Up Arrow
DOWN ARROW	TV Select Down	VCR Select Down	Cable Down Arrow	AUX Down Arrow
LEFT ARROW	TV Adjust Left	VCR Adjust Left	Cable Left Arrow	AUX Title
RIGHT ARROW	TV Adjust Right	VCR Adjust Right	Cable Right Arrow	AUX Sub-Title
QUIT/(Note)	Not functional	VCR Quit	Cable Quit	AUX Resume
A	TV PIP	VCR+	Day Up	AUX Marker
B	TV PIP Swap	VCR Eject Tape	Day Down	AUX Marker Search
C	TV PIP Freeze	VCR Commercial Skip	Cable Page Up	AUX Repeat-Chap
CC	TV Closed Captions	VCR Memory	Cable Page Down	AUX Repeat A-B
TIMER	TV Sleep Timer	VCR Timer	Cable Timer	AUX Program
TV/VCR/SOURCE	TV Sources	TV Tuner or VCR Tuner	Cable Info	AUX Open/Close
RECORD	VCR Record	VCR Record	Cable Buy	AUX Angle
PAUSE	VCR Pause	VCR Pause	Cable Guide	AUX Pause
REWIND	VCR Rewind	VCR Rewind	VCR Rewind	AUX Scan <<
PLAY	VCR Play	VCR Play	VCR Play	AUX Play
STOP	VCR Stop	VCR Stop	VCR Stop	AUX Stop/Eject
FFWD	VCR Fast Forward	VCR Fast Forward	VCR Fast Forward	AUX Scan >>

References: MBR3447CT, 124-233-04

Some of the functions shown above may not be available on your TV (such as PIP).

Use the Installer Menus to change the operational setup



Accessing the Installer's Menu

Installer's menus can be accessed by using the installer's remote control. Just press and hold MENU (about 8 seconds) until the display changes, then press 9, 8, 7, 6, then ENTER. To exit the Installer's Menu, press ENTER again. *Any changes you make will be stored in nonvolatile memory.*

The Installer's Menu opens with item 03, POWER MANAGE. Press the Up arrow key to sequence through the various items. Or, access an item directly by entering the line number, then pressing MENU. For example, to access the Start Channel option which is on line 11, press 11, then MENU. To change a setting, use the Left/Right arrow (Adjust) keys.

Using the Installer's Menu

Items 00-23 are immediately accessible only upon entering the Installer's Menu. Their numbers, descriptions, ranges, factory default settings, and a place for listing any changes made on-site are given below. A second section of the Installer's Menu that is intended for qualified service technicians only is not shown (items 24-93). Normally these items do not require adjustment.

Installer should leave item 00 FACT MENU set to 0 (default). Items 24-93 are service-type adjustments and only qualified technicians having specialized test equipment should access them.

Items in the Installer's Menu:

Item	Description	Range	Fact. Set	Recommended Setting
00	FACT MENU	0 - 1	0	Leave default set 0
01	PRESET PX	0 - 1	1	
02	PRESET AX	0 - 1	1	
03	POWER MANAGE	0 - 7	0	
04	VERT POS	0 - 30	15	
05	HORZ POS	0 - 45	31	
06	BAND/AFC	0 - 7	0	
07	MIN VOLUME	0 - 63	0	
08	MAX VOLUME	0 - 63	63	
09	AC ON	0 - 1	0	
10	KEY DEFEAT	0 - 1	0	
11	STRT CHANNEL	0 - 255	255	
12	STRT VOLUME	0 - 63, 255	255	
13	HOSPITAL MODE	0 - 2	0	Leave default set 0
14	CHAN LOCK	0 - 1	0	
15	GHOST CH.	0 - 1	0	
16	SCAN MODE	0 - 3	0	Leave default set 0
17	TEXT MODE	0 - 1	1	
18	SLEEP TIMER	0 - 1	1	
19	CH. OVER RIDE	0 - 1	1	
20	OLD OCV	0 - 1	0	
21	CAPTION LOCK	0 - 1	0	
22	FUNCTION PRE	0 - 1	0	
23	FEATURE LEVEL	0 - 1	1 Zen 1/0 P Lbl	Leave default set 1 (1 Zen 1)

Use the Installer Menus to change the operational setup

00 FACT MENU (Factory Menu)
Used to access and customize Service Menu settings using the installer type remote.

01 PRESET PX (Preset Picture)*
Saves your custom video settings (color, tint, contrast, and brightness) in nonvolatile memory (not affected by power loss). Memory status is indicated by a 1 for "custom settings already stored," or 0 for "custom settings have not been stored."

Make all custom video settings before you access the Installer's Menu: and PRESET PX. When you use the ADJUST keys to toggle from 0 - 1, any changes in the video settings will be stored, make sure they are correct! These settings become the PRESET values for the PICTURE PREF option of the Video Menu. (For more information refer to the Video Menu section of this manual.)

02 PRESET AX (Preset Audio)
Saves your custom audio settings in nonvolatile memory (not affected by power loss). Memory status is indicated by a 1 for "custom settings already stored," or 0 for "custom settings have not been stored."

Make all custom audio settings before you access the Installer's Menu and PRESET AX. When you use the ADJUST keys to toggle from 0 - 1, any changes in the audio settings will be stored, be sure they are correct! These settings become the PRESET values for the Audio Menu. (For more information refer to the Audio Menu section of this manual.)

03 POWER MANAGE (Power Management)
The POWER MANAGE function is for saving energy. When set to 0, Power Manage is OFF. Settings range from 0 - 7, with 1 - 7 representing the hours that the TV will remain on, unless there has been activity from either the control panel or remote.

04 VERT POS (Vertical Position)*
Moves captions and displays vertically on the screen. Use the Left/Right ADJUST arrows. Typical value is 15. Black bars top and bottom define the active screen area.

05 HORZ POS (Horizontal Position)*
Moves captions and displays horizontally on the screen. Use the ADJUST keys. Typical value is 34. Black bars top and bottom define the active screen area.

06 BAND/AFC (Band/Automatic Frequency Control)
There are 8 possible settings for this option:

0 = Broadcast Fixed	4 = Broadcast AFC
5 = CATV Fixed	1 = CATV AFC
6 = HRC Fixed	2 = HRC AFC
7 = ICC Fixed	3 = ICC AFC

Channels are accessed faster when fixed modes are used. The AFC (search modes) should only be used when some channels are not on nominal frequencies.
NOTE: BAND is automatically set by AUTO PROGRAM.

If some channels were not found by AUTO PROGRAM, select the appropriate AFC setting here and add the channels using the ADD/DEL option in the Setup Menu.

07 MIN VOLUME (Minimum Volume)
This function determines the minimum volume level allowable with the VOLUME (VOL) Up/Down control. In this way, for example, someone cannot set the volume too low to hear. The range is from 0 to 63—change values with ADJUST. The factory default is 0, which provides full range of volume control. It may be best to set the same value on every TV.
NOTE: The minimum volume level cannot have a value setting higher than in the MAX VOLUME level (described below).

08 MAX VOLUME (Maximum Volume)
This function determines the maximum volume level allowable with the VOLUME VOL Up/Down control. In this way, for example, someone cannot set the volume level high enough to disturb others. The range is 0 to 63, with 63 as the default which gives the user the full range of volume control. Change values with ADJUST keys. It may be best to set the same value on every TV.
NOTE: The maximum volume level cannot have a value setting lower than the MIN VOLUME level (described above).

09 AC ON (AC Power Switchable)
Allows the TV to turn ON just by applying AC power. Pressing the ON button is not necessary. This is desirable when the TV is plugged into a cable box or a power outlet controlled by a wall switch. Use ADJUST to select 0 or 1, where 0 is the default is OFF, and 1 is ON.
NOTE: When set to 1 (ON), the TV does not respond to ON/OFF commands from either the remote or the control panel, and the SLEEP TIMER is also nonfunctional.

10 KEY DEFEAT (Keyboard Defeat)
When set to 1, it prevents the end user from accessing screen menus on the front panel—MENU, SELECT, and ADJUST do not function. When set to 0, those keys are functional. The menus can always be accessed with MENU on the remote.

Continued on next page.

Continued from previous page.

11 STRT CHANNEL (Start Channel)
When active, this function allows you to determine the initial channel number when the TV is turned ON. This feature is useful for an in-house information channel, since the TV would always select that channel when it is turned on. Setting this to 255 causes the last channel viewed when TV was turned off to be the tuned to channel when the TV is turned on again.

The range of values is 0 - 255. Use (adjust) keys to choose numbers that determine the start channel.

12 STRT VOLUME (Start Volume)
When active, this function allows you to determine the initial volume level setting when the TV is turned ON. This feature is useful for an in-house information channel, since the TV would always select that channel when it is turned on. When inactive, the volume level and channel retain the settings when the set was last used.

The range of values is 0 - 63, 255. Use (adjust) keys to choose: (1) With number 255, the feature is inactive. (2) Set the volume level as desired before exiting the installer menu.

13 HOSPITAL MODE (Leave set to 0)

14 CHAN LOCK (Channel Lock)
When set to 1 the CHAN LOCK is on. CHAN LOCK is ideal if a cable box (or similar) is the sole source for programming—and the TV must always be on the same channel. Changing channels with Channel Up/Down or keypad numbers is impossible. Channel Lock is inactive when set to 0 (default).

Generally, this feature is used in connection with START CHANNEL (line 11) where the start channel may, for example, be set to 3 or 4. If the start channel is 3 then the TV will remain on channel 3.
NOTE: When channel lock is active AUTO PROGRAM and CH. ADD/DEL in the SETUP MENU are not active.

15 GHOST CH. (Ghost Channel)
When set to 1, the current channel number is displayed in the upper right corner of the CRT. The number moves slightly to prevent damage to the screen. The default is "0" or OFF.
NOTE: When captions are on, the "ghost channel" is not displayed.

16 SCAN MODE (Leave set to 0)

17 TEXT MODE
Determines whether TEXT 1, TEXT 2, TEXT 3, or TEXT 4 decoding is enabled when TEXT is turned on (either from the Setup Menu or directly with CC on the remote).
TIP: Set Text Mode to 1 only if text is offered in your video system.

18 SLEEP TIMER
When set to 1, the SLEEP TIMER feature may be used (but no message is displayed prior to turn-off). When set to 0, the sleep timer is not available.

19 CH. OVERRIDE (Channel Override)
When set to 1, the user is allowed to select channels with either Channel Up/Down or by direct number keypad entry. When set to 0, only those channels that are entered for scanning may be selected.

20. OLD OCV (On Command Video™)
Set to 1 for operation with systems from On Command Corporation.

21. CAPTION LOCK
Set to 1 to restore previous caption On/Off state after TV turns off when set to 0, captions are always off when TV is initially turned on.

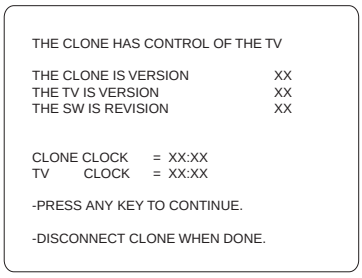
22. FUNCTION PRE
Set to 0 to suppress CHANNEL PREVIEW FUNCTION with some pay per view systems.

Note: Installer should leave item 23 FEATURE LEVEL set to 1 (default).

23. FEATURE LEVEL
Default set to ZEN 1 for Zenith IR remote control operation. Set 0, P LBL for Zenith Private Label IR remote control operation.

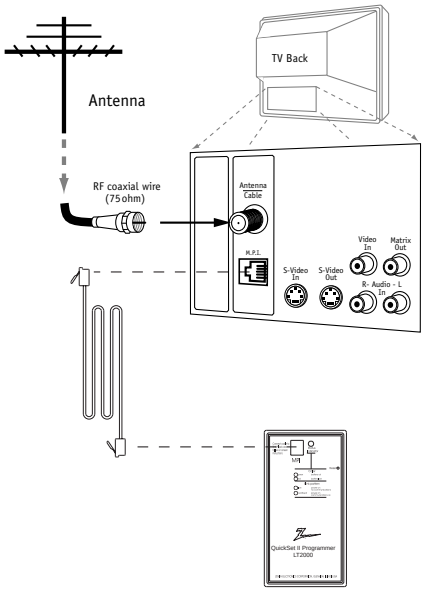
Items 24-93 are service-type adjustments and only qualified technicians having specialized test equipment should access them.

Use the Zenith LT2000 QuickSet II "Clone" Programmer to copy the setup from a "master" TV then quickly transfer the setup to duplicate TVs - must be the same model number as the master TV


THE CLONE HAS CONTROL OF THE TV
THE CLONE IS VERSION XX
THE TV IS VERSION XX
THE SW IS REVISION XX
CLONE CLOCK = XX:XX
TV CLOCK = XX:XX
-PRESS ANY KEY TO CONTINUE.
-DISCONNECT CLONE WHEN DONE.

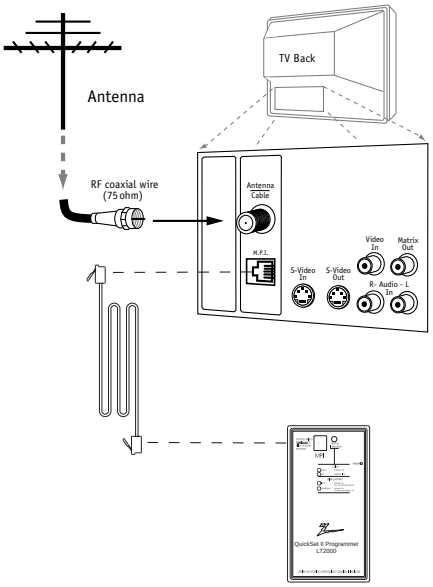
Clone Controlling TV Display

Learn Master TV
Typical MPI Connections



Clone

Teach Other TV
Typical MPI Connections



Clone

The optional QuickSet II Clone Programmer (LT2000) allows custom setup and programming information to be quickly copied from a master TV into multiple identical television sets. Once learned from the master, setup data is retained in the LT2000 for future use.

When using the LT2000, cloning operations will go easier if the TV set is connected to a good quality signal and operating with a stable picture displayed. To operate the LT2000, use the indicated keys on an HP602, LP702, or MBR3447 remote, or the front panel keys on the TV receiver.

Before you begin...

- The "master TV" should be connected to a good, stable signal from an over-the-air antenna or cable service and turned on.
- Teaching and Learning is only possible between identical model Zenith TVs. (However, the Clone programmer can store 4 different master TV setups.)

WARNING: Copying a blank or incorrect memory into a TV will cause the TV to operate erratically or become inoperable.

- Use a Zenith MBR Remote like the MBR3447 or the TV front panel controls to operate Learning and Teaching menus.
- Make sure that the batteries in the Clone programmer are fresh.
- If the batteries are removed, the Clone Clock time will be lost.
- Decide if you want to set the time from the Clone programmer or copy the time to the Clone programmer; from a TV which has the clock set to the current time.
- Follow the connection diagrams above to connect the Clone to a master TV and, after learning is complete, to another TV to "teach" it the setup.
- Setting the time and transferring it to the Clone or another TV is a separate procedure.
- Once a TV's setup is copied to another TV, that TV needs to be disconnected from power for about 5 seconds to activate the newly copied setup.
- See Troubleshooting to solve problems.

A. Set Up a Master TV

Using a Zenith Multi-Brand remote like the MBR3447, set up a "Master" TV with custom settings and features as described in the master TV's operating guide. The master TV's Setup is what you will copy to the Clone Programmer and transfer to TVs of the same model so they will operate identically.

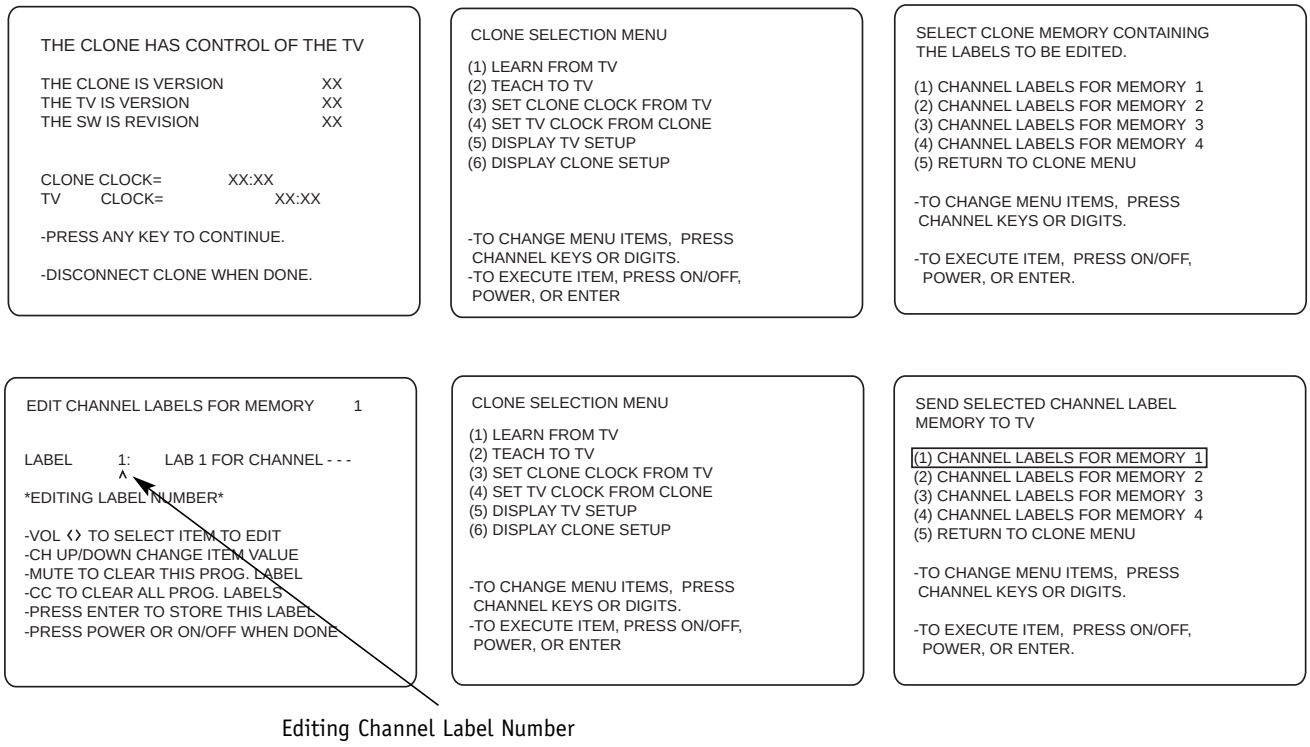
B. Connect Clone to Master TV

If there is a good connection, the "Clone has Control of TV" message will appear. (See menu above.)

A slow flashing green light indicates there is a problem with the communications between the TV and the programmer. In this case, check for a damaged cable, poor contacts, or other connection troubles.

If the status indicator is red, the programmer batteries are low and should be replaced. Use 4 good-quality alkaline AA batteries.

Typical Edit Channel Labels on-screen menus


THE CLONE HAS CONTROL OF THE TV
THE CLONE IS VERSION XX
THE TV IS VERSION XX
THE SW IS REVISION XX
CLONE CLOCK= XX:XX
TV CLOCK= XX:XX
-PRESS ANY KEY TO CONTINUE.
-DISCONNECT CLONE WHEN DONE.
CLONE SELECTION MENU
(1) LEARN FROM TV
(2) TEACH TO TV
(3) SET CLONE CLOCK FROM TV
(4) SET TV CLOCK FROM CLONE
(5) DISPLAY TV SETUP
(6) DISPLAY CLONE SETUP
-TO CHANGE MENU ITEMS, PRESS CHANNEL KEYS OR DIGITS.
-TO EXECUTE ITEM, PRESS ON/OFF, POWER, OR ENTER
SELECT CLONE MEMORY CONTAINING THE LABELS TO BE EDITED.
(1) CHANNEL LABELS FOR MEMORY 1
(2) CHANNEL LABELS FOR MEMORY 2
(3) CHANNEL LABELS FOR MEMORY 3
(4) CHANNEL LABELS FOR MEMORY 4
(5) RETURN TO CLONE MENU
-TO CHANGE MENU ITEMS, PRESS CHANNEL KEYS OR DIGITS.
-TO EXECUTE ITEM, PRESS ON/OFF, POWER, OR ENTER.
EDIT CHANNEL LABELS FOR MEMORY 1
LABEL 1: LAB 1 FOR CHANNEL - - -
EDITING LABEL NUMBER
-VOL ‹› TO SELECT ITEM TO EDIT
-CH UP/DOWN CHANGE ITEM VALUE
-MUTE TO CLEAR THIS PROG. LABEL
-CC TO CLEAR ALL PROG. LABELS
-PRESS ENTER TO STORE THIS LABEL
-PRESS POWER OR ON/OFF WHEN DONE
CLONE SELECTION MENU
(1) LEARN FROM TV
(2) TEACH TO TV
(3) SET CLONE CLOCK FROM TV
(4) SET TV CLOCK FROM CLONE
(5) DISPLAY TV SETUP
(6) DISPLAY CLONE SETUP
-TO CHANGE MENU ITEMS, PRESS CHANNEL KEYS OR DIGITS.
-TO EXECUTE ITEM, PRESS ON/OFF, POWER, OR ENTER
SEND SELECTED CHANNEL LABEL MEMORY TO TV
(1) CHANNEL LABELS FOR MEMORY 1
(2) CHANNEL LABELS FOR MEMORY 2
(3) CHANNEL LABELS FOR MEMORY 3
(4) CHANNEL LABELS FOR MEMORY 4
(5) RETURN TO CLONE MENU
-TO CHANGE MENU ITEMS, PRESS CHANNEL KEYS OR DIGITS.
-TO EXECUTE ITEM, PRESS ON/OFF, POWER, OR ENTER.
Editing Channel Label Number

C. Learn Setup from Master TV

Press 1 to select the "Learn From TV" option, then press ON/OFF, POWER, or ENTER to go to the Memory Bank Selection Menu. Pick the Memory "Bank" (1, 2, 3, or 4) you want to store this Master TV's Setup in by pressing either Channel key repeatedly to pick Memory 1, 2, 3, or 4. (If you choose a Memory "Bank" that already has a master TV's setup already in it, it will be overwritten by this Master TV's setup.) Once the Clone memory bank is selected, press ON/OFF, POWER, or ENTER. The Clone memory bank you have selected will be shown. Press ON/OFF or POWER to begin copying the master TV's setup.

Ca. Set the Clock (Optional)

Set the time on the Master TV's Clock. (If the time has already been copied from another TV into the Clone programmer, you can set the Master TV's clock by copying the time from the Clone programmer.) The Clone Programmer can copy the current time to both a master TV and to the Clone's internal clock; accurate to within one minute. (Another reason that the Clone programmer should be equipped with fresh, high-quality alkaline batteries is for it to keep the time as accurately as possible.)

Since the Clone Programmer's time cannot be set directly, the time needs to be copied from a Zenith TV equipped with MPI input capability.

Once the time is copied to the Clone programmer, the current time can then be transferred to another TV. (This can be a Master TV, or another TV which has had the features already set up.)

D. Teach Master TV's Setup to Other TV

Once Learning is complete, remove the MPI cable from the master TV and connect it to the TV that you want to copy the master TV's setup to. With the "TV is Controlled by Clone" message displayed, press 2 or use either Channel key to go to the "Teach to TV" option, press ON/OFF, POWER, or ENTER. Follow on-screen instructions to transfer the Setup and other information to the "Learning" TV. After the "Teach to TV is Complete" message is displayed, press any key to return to the Clone menus option, then press ON/OFF, POWER, or ENTER. If finished, remove MPI cable from the TV.

E. Disconnect TV Power for 5 Seconds

Remove the TV power cord of the newly "Cloned TV" from the power outlet for about 5 seconds to activate the newly copied setup.

Operation Notes

Disconnect the Clone from the TV when you are finished; automatically switching it off. The real-time clock continues to run when the main circuits are switched off.

Reset Clone After Static Shock

After replacing exhausted batteries, or if the programmer behaves strangely after a static shock, use a paper clip or similar instrument inserted through the small hole marked "RESET" to activate the internal reset switch and restore normal operation. After a reset, check the real-time clock setting. It may be necessary to reset the Clone Programmer clock from a TV containing the correct time.

The LT2000 programmer is designed to be used with TVs containing the 221-01006 and later processors. Use with earlier TV sets may give unpredictable results. The specific microprocessor used in any TV set may be determined by activating the Installer Menu. The microprocessor part number appears at the top of the screen when the Installer Menu is activated. Processors before the 221-01006-04 have a limited screen display capability. They can not display entire screens as shown in the quick setup instructions accompanying the LT2000 clone programmer. Use the printed menu illustrations on the quick setup sheet supplied with the Clone as an aid to making your programming choices. (Although the menus are not all displayed, the clone functions all operate normally.)

Troubleshooting

Problem	Possible Cause(s)	Possible Solution(s)
Clone Programmer		
LED does not blink.	• MPI cord not connected. • TV not turned on. • Weak batteries.	-Connect MPI cord. -TV must be on for clone to work. -Install 4 fresh AA high-quality alkaline batteries.
Clone menu hard to read.	• Weak signal.	-Connect TV to a reliable signal source.
No time set.	• No time on Master TV.	-Set time on master TV, copy time to Clone Programmer.
Master and Other TVs		
Cloning did not work.	• Procedure interrupted. • Different TV models.	-Wait until procedure complete message is displayed. -Cloning is only possible with identical model TVs.
Clone time disappeared.	• Batteries were removed.	-Batteries must remain installed to retain time settings.
Channel Labels not present on cloned TV.	• Saved to other memory.	-Must save channel labels to same memory bank as master TV setup.
New Setup not present.	• TV not reset.	-Disconnect newly cloned TV from power for 5 seconds.

When cloning operations are complete, just unplug the LT2000 from the TV.

If the TV does not display a picture (blank screen) after a few seconds, just change channels.

Some quick and easy tips to resolving problems

Symptoms	Possible Cause(s)	Possible Solution(s)	See Page(s)
Power			
No Power.	• AC Power Cord not connected or outlet doesn't work.	-Connect power cord. Try a different outlet. -Local power failure?	7 - 10
No Source image.	• Source turned off.	-Turn Source equipment on.	17
Remote Control			
Remote doesn't work.	• Remote not in TV mode.	-Press TV to put remote into TV mode.	16
	• TV software functioning.	-Wait until software function is complete.	
	• Not aimed at remote sensor.	-Point remote at TV Front Control Panel.	15
	• Remote too far from TV or IR path to TV obstructed.	-Move remote closer to TV or darken room. -Remove obstructions.	
	• Weak batteries.	-Replace batteries.	7 - 11
	• Wrong battery polarity.	-Check that "+" and "-" match in battery compartment.	7 - 11
	• Too much light in room.	-Dim room light.	
Menu Operation			
Menu options can't be changed or selected.	• Software lock-up.	-Unplug power cord for 5 minutes to unlock software. (Reset clock if necessary.)	7 - 10
Caption/Text Problems			
Picture has a big black box on it, but the sound is O.K.	• Caption/Text mode turned on.	-The CC (closed caption) option may be in Text 1, 2, 3, or 4 mode. -Select Caption 1, or OFF in the Caption/Text menu.	
No Closed Captions or Text.	• Not available on program.	-Check local TV listings to see if available on broadcast. -Relocate over-the-air antenna. -Try a different channel with Closed Captions or Text.	24
	• Not turned on.	-Pick a Closed Caption or Text option and turn Captions on.	24
Captions appear when sound is muted.	• EZ Mute selected.	-Set Captions option to off.	24
Parental Control Problems			
Protected/blocked message shows on-screen.	• Program content is restricted.	-Key-in password and turn Lock On/Off (restrictions) Off. -Set to Off in Lock On/Off menu.	28/29
	• Don't know password.	-Tune to channel without Parental Control "Content" restrictions. -Wait until restriction time expires.	28/29
TV-PG programs blocked.	• TV-PG set to be blocked.	-Reset restrictions to PG-13 so TV-PG programs will appear.	28/29
Foul language is heard.	• Foul language not blocked.	-Restrict Language in Content options on Parental Control menu.	
	• Program is not rated.	-Restrict programs with no ratings.	28/29

Some quick and easy tips to resolving problems

Symptoms	Possible Cause(s)	Possible Solution(s)	See Page(s)
Picture Reception			
Poor or no picture.	• TV station problems.	-Try a different channel.	15/16
	• Video menu not adjusted properly.	-Check Video menu option settings.	27
Local interference.	• Check for disturbing source.	*The following may cause image problems or distortion: Electrical appliances, powerful lights, cars, trucks; computers or portable phones; medical equipment*	
	• Appliance too close to TV.	-If possible increase the distance between your Entertainment Machine and the offending appliance. Or shut one of them off.	
Poor or no color.	• Sub-standard broadcast.	-Try a different channel.	15/16
	• Sub-standard cable signal.	-Notify cable company of reception problem.	
		-If a VCR is connected, play a tape.	
Picture wobbles or drifts.	• CATV not connected, loose.	-Make or tighten connection.	7 - 11
	• Local interference.	-Try different channel. Turn off interfering appliance.	15/16
	• Scrambled CATV channel.	-Tune to unscrambled channel.	15/16
No CATV reception.	• Cable not connected.	-Connect cable to UHF/VHF.	7 - 11
	• Cable service interrupted.	-Contact cable service.	
	• Antenna set, not CATV.	-Select CATV in Setup menu, run Auto Program.	14
Normal picture, poor or no sound.	• Audio Muted.	-Press MUTE or volume right key to increase sound level.	16
	• Broadcast problem.	-Try a different channel.	15/16
	• A/V cables incorrectly connected.	-Install the Audio A/V cables correctly	9 - 11
	• Audio Out cables wrong.	-Install external amplifier/speaker cables correctly.	12
	• Front Surround turned off.	-Turn Front Surround on in the Audio menu.	26
	• No 2nd Audio/SAP on program.	-Choose another audio mode option or a different program.	26
Snowy or Poor Picture	• Wrong Ant. connection/location.	-Move antenna, check connection/location.	7 - 11
	• TV/VCR button set wrong.	-Set TV/VCR button on your VCR correctly.	7 - 11
	• Wrong tuning mode.	-Are you in TV or cable tuning mode, and should be in the other?	16
	• Wrong output channels selected.	-Set output channels on all A/V equipment to same channel (3 or 4).	
	• Loose connection.	-Check that all connections are tight.	7 - 11
	• Broadcast problem.	-Try another channel.	15/16
	• Video menu options set wrong.	-Make sure Video menu brightness controls are set properly	27
TV turns Off.	• Sleep Timer turned TV Off.	-Turn TV back on.	16/19/23
	• Power failure.	-Check other household power outlets.	
	• Power outlet controlled by switch. (Switch turned off.)	-Connect TV power cord to outlet that is not controlled by a switch.	

Some quick and easy tips to resolving problems

Symptoms	Possible Cause(s)	Possible Solution(s)	See Page(s)
Source Selection / Source Image Problems			
Camport (front Audio/Video) source not selectable.	• Equipment not connected.	-Connect Audio/Video equipment to front Audio/Video.	15/17
No Camport image. (front Audio/Video)	• Equipment not turned on.	-Turn on equipment connected to front Audio/Video.	
S-Video Source not selectable.	• Camport (front Audio/Video) connected.	-Disconnect equipment connected to front Audio/Video.	15/17
	• Not connected.	-Connect S-Video equipment to S-Video In.	11/17
No S-Video image.	• Equipment not turned on.	-Turn on equipment connected to S-Video In.	
No S-Video audio.	• S-Video audio not connected.	-Connect audio for S-Video to rear Audio In R - L. (Use Audio In L jack to connect one audio wire.)	11/17
Antenna/Cable not selectable.	• Front Audio/Video connected.	-Disconnect equipment connected to front Audio/Video.	15/17
	• S-Video equipment connected.	-Disconnect S-Video equipment from rear jackpack.	11
No Antenna/Cable image.	• Not connected.	-Connect over-the-air antenna or cable service wire to Antenna/Cable jack.	7/8/17
Rear Audio/Video not selectable.	• Front Audio/Video connected.	-Disconnect equipment from front Audio/Video.	15/17
	• S-Video equipment connected.	-Disconnect S-Video equipment from rear jackpack.	11/17
	• Deleted from channel scan.	-Press TV/VCR Source.	16
	• Channel Override set to "0"	-Access Installer menu and set Item 19 CH OVERRIDE to "1". Go to Setup menu, select Add/Del/Blank option. Press 9-9-9 to select AUX. Press MENU, select "Added" in Add/Del/Blnk option in Setup menu.	37
No rear Audio/Video image.	• Equipment not turned on.	-Turn on equipment connected to rear Audio/Video.	
	• Equipment not connected.	-Connect equipment to rear Audio/Video.	9/10/17

Routine TV cabinet and screen cleaning

Careful and regular cleaning can extend the the useful service life of the TV. Be sure to turn the power off and pull out the power cord before you begin any cleaning.

Screen Cleaning

1. Here's a great way to keep the dust off the screen for a while. Wet a soft cloth in a mixture of lukewarm water and a little fabric softener or dish washing detergent. Wring the cloth until it's almost dry, and then use it to wipe the screen.

2. Make sure the excess water is off the screen, and then let it air-dry before turning it on.

Cabinet Cleaning

1. Use a soft cloth with a mild soap solution to wipe the cabinet. (Avoid using any harsh, industrial strength variety of cleaner.)

2. Rinse the cloth and wipe the cabinet again.

3. Let the cabinet air-dry before turning the Presentation TV on.

Wood Cabinet

Use a quality wood cleaner and polish. This will protect the TV from dirt and dust, as well as keep the cabinet looking new.

Extended Absence

If the TV will be dormant for a long time (such as a vacation), it's a good idea to unplug the power to protect against possible damage from lightning or power surges. If you use an off-air antenna, you may also want to disconnect it from the back of your TV.

If you unplug the TV, you may have to reset the clock using the Clock Set menu described earlier. See page 24.

A list of definitions for words found in this guide

75 OHM RF CABLE	The wire that comes from an off-air antenna or cable service provider. The end looks like a hex-shaped nut with a wire sticking through the middle. It screws onto the threaded jack on the back of the TV.
300 TO 75 OHM ADAPTER	A small device that connects a two-wire 300 ohm antenna to a 75 ohm RF jack. They are usually about an inch long with two screws on one end and a round opening with a wire sticking out on the other end.
A/V CABLES	Audio/Video cables. Three cables bunched together—right audio (red), left audio (white), and video (yellow). A/V cables are used for stereo playback of videocassettes and for higher quality picture and sound from other A/V devices.
A/V DEVICE	Any device that produces video or sound (VCR, DVD, cable box, or television).
ADDED	Lets you add new channels to list that you'll scroll through when using your remote.
AMPLIFIER	An electronic device that amplifies sound from a television, CD player, VCR, DVD, or other Audio/Video device.
ANTENNA	The physical receiver of television signals sent over the air. A large metal piece of equipment does not always have to be visible for your home to be using an antenna.
AUTO PROGRAM	Auto Program has the Presentation TV automatically find all the channels available in your area.
BLANK	Channels that are Blanked will not have Video (shows a blank screen); only audio, if present on channel.
DELETED	Lets you remove channels from the list that you'll scroll through using the remote.
INPUT	Refers to the jack that receives a signal from a TV, VCR, or other Audio/Video device.
JACK	A connection on the back of a TV, VCR, or other Audio/Video device.
MONO SOUND	Mono (monaural) sound is one channel of sound. On more than one speaker, all the speakers play the same audio.
OUTPUT	Refers to the jack that sends a signal out of a VCR, DVD, or other A/V device.
2ND AUDIO PROGRAMMING/SAP	Second Audio Programming (SAP) is another, separate, audio channel available with some programming. Choosing SAP often refers to listening to audio in another language, such as Spanish or French.
S-Video	Provides higher-quality picture and sound. (S-Video is also referred to as "Y-C".)
SIGNAL	Picture and sound traveling through a cable, or over the air, to your television.
STEREO SOUND	Stereo (Stereophonic) sound refers to audio that's divided into right and left sides.
TUNER	Device that picks up the signal and turns it into picture and sound.
XDS	Extended Data Service: Additional program information provided at the discretion of the broadcaster.

Your Zenith Presentation™ TV Warranty

Direct-View Color TV Welcome to the Zenith family! We believe that you will be pleased with your new Presentation™ TV. Please read this warranty carefully, it is a "LIMITED WARRANTY" as defined under Federal Law. This warranty gives you specific legal rights, and you may also have other rights that vary from state-to-state within the U.S.A.

ZENITH'S RESPONSIBILITY

Service Labor During a period of one year from effective warranty date, Zenith will provide service labor by a Zenith authorized service center when needed, as determined by the Zenith service center, as a result of manufacturing defects.

Parts New or remanufactured replacements for factory-defective parts will be supplied by a Zenith authorized service center for one year from effective warranty date (color picture tube — two years). Such replacement parts are warranted for the remaining portion of the original warranty period.

Warranty Service Warranty service is provided in the institution in most cases. (Some repairs may require the unit to be taken by the servicer to the repair facility and returned, at no additional charge.) Call **1-888-865-3026** for further information.

Not Covered This warranty covers manufacturing defects and does not cover installation, adjustment of customer controls, installation or repair of antenna systems, cable converters or cable company-supplied equipment; it also does not cover damage due to misuse, abuse, negligence, acts of God or other causes beyond the control of Zenith. Any alteration of the product after manufacture voids this warranty in its entirety.

THIS WARRANTY IS IN LIEU OF ANY OTHER WARRANTY, EXPRESSED OR IMPLIED, INCLUDING WITHOUT LIMITATION, ANY WARRANTY OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE, AND ZENITH SHALL NOT BE LIABLE FOR ANY CONSEQUENTIAL, INDIRECT, OR INCIDENTAL DAMAGES OF ANY KIND, INCLUDING LOST REVENUES OR PROFITS IN CONNECTION WITH THIS PRODUCT. SOME STATES DO NOT ALLOW LIMITATIONS ON HOW LONG AN IMPLIED WARRANTY LASTS OR THE EXCLUSION OR LIMITATION OF INCIDENTAL OR CONSEQUENTIAL DAMAGES, SO THE ABOVE LIMITATIONS OR EXCLUSIONS MAY NOT APPLY TO YOU.

OWNER'S RESPONSIBILITY

Effective Warranty Date Warranty begins on the date of installation of the Commercial Products Direct View Television Receiver.
For your convenience, keep the dealer's dated bill of sale or delivery ticket as evidence of the purchase date.

Operating Guide Read your Operating Guide carefully so that you will understand the operation of the TV and how to adjust the controls.

Antenna Reception problems caused by inadequate antenna or faulty antenna connections are the owner's responsibility.

Important Product Registration—Please fill out and mail the Product Registration Card. It is imperative that Zenith know how to reach you promptly if we should discover a safety problem that could affect you.

Warranty Service **For warranty service information, call 1-888-865-3026.** Parts and service labor that are Zenith's responsibility (see above) will be provided without charge. Other service is at the owner's expense. If you have any problem in obtaining satisfactory warranty service, call **1-888-865-3026.**
You must provide the model number, serial number and date of purchase or date of original installation.
Before you ask for warranty service, read "Maintenance and Troubleshooting" in the operating guide. You might avoid a service call.

For Customer Support/Service
Please call:

1-888-865-3026

www.zenith.com

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